

# Introduzione a PubMed

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# Che cos'è PubMed

- *PubMed* è un *motore di ricerca* per estrarre informazione da *MEDLINE*
- *MEDLINE* è un database che contiene informazioni bibliografiche su articoli scientifici di argomento biomedico:
  - circa 21 milioni di articoli
  - tratti da circa 5600 riviste specializzate

# PubMed

The screenshot shows the PubMed website interface. At the top, there is a browser address bar with the URL [www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed). Below the address bar, there is a navigation bar with the PubMed logo and the text "US National Library of Medicine National Institutes of Health". A search bar is located in the top right of the navigation bar, with a "Search" button. A blue arrow points from the text "Barra di ricerca" to this search bar. Below the navigation bar, there is a main content area with a large banner for PubMed, a section for PubMed Commons, and three columns of links under the headings "Using PubMed", "PubMed Tools", and "More Resources". At the bottom of the page, there is a breadcrumb trail "You are here: NCBI > Literature > PubMed" and a link "Write to the Help Desk".

Barra di ricerca

Proviamo a cercare l'articolo di Crick e Watson sulla struttura del DNA

Show additional filters

Display Settings: Summary, 20 per page, Sorted by Recently Added

Send to:

Article types

- Clinical Trial
- Review
- More ...

Text availability

- Abstract available
- Free full text available
- Full text available

Publication dates

- 5 years
- 10 years
- Custom range...

Species

- Humans

Results: 1 to 20 of 3099

<< First < Prev Page 1 of 155 Next > Last >>

- [Noncanonical Structures and Their Thermodynamics of DNA and RNA Under Molecular Crowding: Beyond the Watson-Crick Double Helix.](#)

Sugimoto N.

Int Rev Cell Mol Biol. 2014;307C:205-273. doi: 10.1016/B978-0-12-800046-5.00008-4.

PMID: 24380597 [PubMed - as supplied by publisher]

[Related citations](#)

- [In vitro selection with artificial expanded genetic information systems.](#)

- 2. Sefah K, Yang Z, Bradley KM, Hoshika S, Jiménez E, Zhang L, Zhu G, Shanker S, Yu F, Turek D, Tan W, Benner SA.

Proc Natl Acad Sci U S A. 2013 Dec 30. [Epub ahead of print]

PMID: 24379378 [PubMed - as supplied by publisher]

[Related citations](#)

Troppi risultati

La ricerca e' stata effettuata anche nei titoli, ecc.  
(non solo tra gli autori)

Display Settings:  Abstract

Send to:



Acc Chem Res. 2013 Dec 26. [Epub ahead of print]

## Abasic and Oxidized Abasic Site Reactivity in DNA: Enzyme Inhibition, Cross-Linking, and Nucleosome Catalyzed Reactions.

Greenberg MM.

### Author information

### Abstract

Abasic lesions are a family of DNA modifications that lack Watson-Crick bases. The parent member of this family, the apurinic/apyrimidinic lesion (AP), occurs as an intermediate during DNA repair, following nucleobase alkylation, and from random hydrolysis of native nucleotides. In a given day, each cell produces between 10000 and 50000 AP lesions. A variety of oxidants including  $\gamma$ -radiolysis produce oxidized abasic sites, such as C4-AP, from the deoxyribose backbone. A number of potent, cytotoxic antitumor agents, such as bleomycin and the enediynes (e.g., calicheamicin, esperamicin, and neocarzinostatin) also lead to oxidized abasic sites in DNA. The absence of Watson-Crick bases prevents DNA polymerases from properly determining which nucleotide to incorporate opposite abasic lesions. Consequently, several studies have revealed that (oxidized) abasic sites are highly mutagenic. Abasic lesions are also chemically unstable, are prone to strand scission, and possess electrophilic carbonyl groups. However, researchers have only uncovered the consequences of the inherent reactivity of these electrophiles within the past decade. The development of solid phase synthesis methods for oligonucleotides that both place abasic sites in defined positions and circumvent their inherent alkaline lability has facilitated this research. Chemically synthesized oligonucleotides containing abasic lesions provide substrates that have allowed researchers to discover a range of interesting chemical properties of potential biological importance. For instance, abasic lesions form DNA-DNA interstrand cross-links, a particularly important family of DNA

### Save items

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### Related citations in PubMed

Rapid DNA-protein cross-linking and strand scission by an at [Proc Natl Acad Sci U S A. 2010]

In vitro replication and repair of DNA containing a C2'-oxidized abasic site. [Biochemistry. 2004]

In vitro effects of a C4'-oxidized abasic site on DNA polymerases. [Biochemistry. 2004]

**Review** Abasic site recognition by two apurinic/apyrimidinic endonucleases [Mutat Res. 2000]

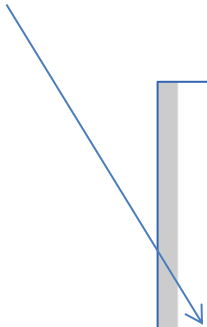
**Review** Abasic sites in DNA: repair and biological consequences in Saccl [DNA Repair (Amst). 2004]

In questo articolo trovato Crick e Watson appaiono nell'abstract

Dobbiamo imparare a limitare la ricerca ai *campi* che ci interessano

Seguendo "Help":

- La ricerca puo' essere effettuata su ognuno di questi campi
- A ciascuno corrisponde una *tag*
- Esempio: autore → [AU]



<a href="#">Affiliation [AD]</a>	<a href="#">Investigator [IR]</a>	<a href="#">Pharmacological Action [PA]</a>
<a href="#">Article Identifier [AID]</a>	<a href="#">ISBN [ISBN]</a>	<a href="#">Place of Publication [PL]</a>
<a href="#">All Fields [ALL]</a>	<a href="#">Issue [IP]</a>	<a href="#">PMID [PMID]</a>
<a href="#">Author [AU]</a>	<a href="#">Journal [TA]</a>	<a href="#">Publisher [PUBN]</a>
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<a href="#">Corporate Author [CN]</a>	<a href="#">MeSH Date [MHDA]</a>	<a href="#">Subset [SB]</a>
<a href="#">Create Date [CRDT]</a>	<a href="#">MeSH Major Topic [MAJR]</a>	<a href="#">Supplementary Concept [NM]</a>
<a href="#">Completion Date [DCOM]</a>	<a href="#">MeSH Subheadings [SH]</a>	<a href="#">Text Words [TW]</a>
<a href="#">EC/RN Number [RN]</a>	<a href="#">MeSH Terms [MH]</a>	<a href="#">Title [TI]</a>
<a href="#">Editor [ED]</a>	<a href="#">Modification Date [LR]</a>	<a href="#">Title/Abstract [TIAB]</a>
<a href="#">Entrez Date [EDAT]</a>	<a href="#">NLM Unique ID [JID]</a>	<a href="#">Transliterated Title [TT]</a>
<a href="#">Filter [FILTER]</a>	<a href="#">Other Term [OT]</a>	<a href="#">UID [PMID]</a>
<a href="#">First Author Name [1AU]</a>	<a href="#">Owner</a>	<a href="#">Version</a>
<a href="#">Full Author Name [FAU]</a>	<a href="#">Pagination [PG]</a>	<a href="#">Volume [VI]</a>
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PubMed

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**Send to:**

**Results: 1 to 20 of 393**

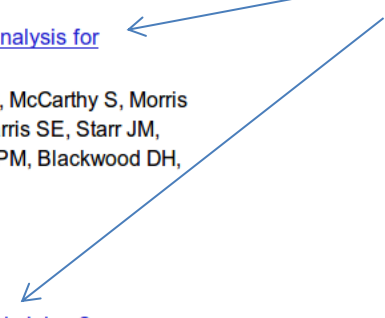
<< First < Prev Page 1 of 20 Next > Last >>

- [TCDD dysregulation of 13 AHR-target genes in rat liver.](#)
- 1. **Watson JD**, Prokopec SD, Smith AB, Okey AB, Pohjanvirta R, Boutros PC.  
Toxicol Appl Pharmacol. 2013 Dec 16. pii: S0041-008X(13)00555-3. doi: 10.1016/j.taap.2013.12.004. [Epub ahead of print]  
PMID: 24355419 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Validating reference genes within a mouse model system of 2,3,7,8-tetrachlorodibenzo-p-dioxin \(TCDD\) toxicity.](#)
- 2. Prokopec SD, Buchner NB, Fox NS, Chong LC, Mak DY, **Watson JD**, Petronis A, Pohjanvirta R, Boutros PC.  
Chem Biol Interact. 2013 Sep 5;205(1):63-71. doi: 10.1016/j.cbi.2013.06.008. Epub 2013 Jun 19.  
PMID: 23791969 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [708 Common and 2010 rare DISC1 locus variants identified in 1542 subjects: analysis for association with psychiatric disorder and cognitive traits.](#)
- 3. Thomson PA, Parla JS, McRae AF, Kramer M, Ramakrishnan K, Yao J, Soares DC, McCarthy S, Morris SW, Cardone L, Cass S, Ghiban E, Hennah W, Evans KL, Rebolini D, Millar JK, Harris SE, Starr JM, Macintyre DJ, Generation Scotland, McIntosh AM, **Watson JD**, Deary IJ, Visscher PM, Blackwood DH, McCombie WR, Porteous DJ.  
Mol Psychiatry. 2013 Jun 4. doi: 10.1038/mp.2013.68. [Epub ahead of print]  
PMID: 23732677 [PubMed - as supplied by publisher]  
[Related citations](#)
- [How much vertical displacement of the symphysis indicates instability after pelvic injury?](#)
- 4. Golden RD, Kim H, **Watson JD**, Oliphant BW, Doró C, Hsieh AH, Osgood GM, O'Toole RV.  
J Trauma Acute Care Surg. 2013 Feb;74(2):585-9. doi: 10.1097/TA.0b013e31827d60f8.  
PMID: 23354255 [PubMed - indexed for MEDLINE]  
[Related citations](#)

- Article types**
- Clinical Trial
  - Review
  - More ...
- Text availability**
- Abstract available
  - Free full text available
  - Full text available
- Publication dates**
- 5 years
  - 10 years
  - Custom range...
- Species**
- Humans
  - Other Animals

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- Specifichiamo con la tag [AU] che vogliamo trovare "JD Watson" nel campo "Autore"
- Gli articoli trovati hanno tutti JD Watson tra gli autori
- Non necessariamente lo stesso JD Watson ...




# Operatori booleani

- Per combinare due (o piu') ricerche diverse usiamo gli *operatori booleani*:
  - S1 AND S2: trova tutti gli articoli che soddisfano sia S1 sia S2
  - S1 OR S2: trova tutti gli articoli che soddisfano S1 oppure S2 *oppure entrambe*
  - S1 NOT S2: trova tutti gli articoli che soddisfano S1 ma non S2



PubMed

crick FH[au] AND watson JD[au]

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## Results: 14

- [Molecular structure of nucleic acids: a structure for deoxyribose nucleic acid.](#)
  1. **Watson JD, Crick FH.**  
Clin Orthop Relat Res. 2007 Sep;462:3-5. No abstract available.  
PMID: 17804965 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  2. **Watson JD, Crick FH.**  
Rev Invest Clin. 2003 Mar-Apr;55(2):108-9. No abstract available.  
PMID: 12911027 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  3. **Watson JD, Crick FH.**  
Am J Psychiatry. 2003 Apr;160(4):623-4. No abstract available.  
PMID: 12668347 [PubMed - indexed for MEDLINE]  
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- [TCDD dysregulation of 13 AHR-target genes in rat liver.](#)
- 1. **Watson JD**, Prokopec SD, Smith AB, Okey AB, Pohjanvirta R, Boutros PC.  
Toxicol Appl Pharmacol. 2013 Dec 16. pii: S0041-008X(13)00555-3. doi: 10.1016/j.taap.2013.12.004.  
[Epub ahead of print]  
PMID: 24355419 [PubMed - as supplied by publisher]  
[Related citations](#)
- [Validating reference genes within a mouse model system of 2,3,7,8-tetrachlorodibenzo-p-dioxin \(TCDD\) toxicity.](#)
- 2. Prokopec SD, Buchner NB, Fox NS, Chong LC, Mak DY, **Watson JD**, Petronis A, Pohjanvirta R, Boutros PC.  
Chem Biol Interact. 2013 Sep 5;205(1):63-71. doi: 10.1016/j.cbi.2013.06.008. Epub 2013 Jun 19.  
PMID: 23791969 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [708 Common and 2010 rare DISC1 locus variants identified in 1542 subjects: analysis for association with psychiatric disorder and cognitive traits.](#)
- 3. Thomson PA, Parla JS, McRae AF, Kramer M, Ramakrishnan K, Yao J, Soares DC, McCarthy S, Morris SW, Cardone L, Cass S, Ghiban E, Henna W, Evans KL, Rebolini D, Millar JK, Harris SE, Starr JM, Macintyre DJ; Generation Scotland, McIntosh AM, **Watson JD**, Deary IJ, Visscher PM, Blackwood DH, McCombie WR, Porteous DJ.  
Mol Psychiatry. 2013 Jun 4. doi: 10.1038/mp.2013.68. [Epub ahead of print]  
PMID: 23732877 [PubMed - as supplied by publisher]  
[Related citations](#)
- [A footnote on allostery.](#)
- 4. **Crick FH**, Wyman J.  
J Mol Biol. 2013 May 13;425(9):1500-8. doi: 10.1016/j.jmb.2013.03.012. Epub 2013 Mar 21.  
PMID: 23523900 [PubMed - indexed for MEDLINE]  
[Related citations](#)

PubMed

crick FH[au] NOT watson JD[au]



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<< First < Prev Page  of 3 Next > Last >>

[A footnote on allostery.](#)

1. **Crick FH, Wyman J.**

J Mol Biol. 2013 May 13;425(9):1500-8. doi: 10.1016/j.jmb.2013.03.012. Epub 2013 Mar 21.

PMID: 23523900 [PubMed - indexed for MEDLINE]

[Related citations](#)

[Anticipating an RNA world. Some past speculations on the origin of life: where are they today?](#)

2. **Orgel LE, Crick FH.**

FASEB J. 1993 Jan;7(1):238-9. No abstract available.

PMID: 7678564 [PubMed - indexed for MEDLINE] **Free Article**

[Related citations](#)

[Selfish DNA.](#)

3. **Orgel LE, Crick FH, Sapienza C.**

Nature. 1980 Dec 25;288(5792):645-6. No abstract available.

PMID: 7453798 [PubMed - indexed for MEDLINE]

[Related citations](#)

Gli operatori booleani si possono anche usare per combinare ricerche su campi diversi

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**Results: 9**

- [The origin of the genetic code.](#)  
1. **Crick FH.**  
J Mol Biol. 1968 Dec;38(3):367-79. No abstract available.  
PMID: 4887876 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  
- [The Croonian lecture, 1966. The genetic code.](#)  
2. **Crick FH.**  
Proc R Soc Lond B Biol Sci. 1967 Apr 18;167(9):331-47. No abstract available.  
PMID: 4382798 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  
- [UGA: a third nonsense triplet in the genetic code.](#)  
3. **Brenner S, Barnett L, Katz ER, Crick FH.**  
Nature. 1967 Feb 4;213(5075):449-50. No abstract available.  
PMID: 6032223 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  
- [The genetic code. 3.](#)  
4. **Crick FH.**  
Sci Am. 1966 Oct;215(4):55-60 passim. No abstract available.  
PMID: 5916452 [PubMed - indexed for MEDLINE]  
[Related citations](#)

Ricerca sul titolo [ti]

- Si possono combinare piu' di due ricerche con gli operatori booleani, ma attenzione alla *precedenza*
- Supponiamo di voler cercare gli articoli di Crick che hanno "genetic code" oppure "codon" nel titolo

PubMed  [RSS](#) [Save search](#) [Advanced](#)

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**Results: 1 to 20 of 5126**

<< First < Prev Page  of 257 Next > Last >>

- [Sequence-Specific DNA Alkylation Targeting for Kras Codon 13 Mutation by Pyrrole-Imidazole Polyamide seco-CBI Conjugates.](#)
  1. Taylor RD, Asamitsu S, Takenaka T, Yamamoto M, Hashiya K, Kawamoto Y, Bando T, Nagase H, Sugiyama H.  
Chemistry. 2013 Dec 30. doi: 10.1002/chem.201303295. [Epub ahead of print]  
PMID: 24382626 [PubMed - as supplied by publisher]  
[Related citations](#)

- Troppi risultati
- Sbagliati

# Precedenza e parentesi

Il problema è quale operazione logica debba essere svolta prima

Se scrivo

```
crick FH[au] AND "genetic code"[ti] OR codon[ti]
```

Il sistema prima calcola

```
crick FH[au] AND "genetic code"[ti]
```

Poi il risultato viene combinato con

```
OR codon[ti]
```

Quindi è equivalente a

```
(crick FH[au] AND "genetic code"[ti]) OR codon[ti]
```

Mentre io volevo

```
crick FH[au] AND ("genetic code"[ti] OR codon[ti])
```



[Display Settings:](#)  Summary, 20 per page, Sorted by Recently Added

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## Results: 10

[The origin of the genetic code.](#)

1. **Crick FH.**

J Mol Biol. 1968 Dec;38(3):367-79. No abstract available.

PMID: 4887876 [PubMed - indexed for MEDLINE]

[Related citations](#)

[The Croonian lecture, 1966. The genetic code.](#)

2. **Crick FH.**

Proc R Soc Lond B Biol Sci. 1967 Apr 18;167(9):331-47. No abstract available.

PMID: 4382798 [PubMed - indexed for MEDLINE]

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[UGA: a third nonsense triplet in the genetic code.](#)

3. **Brenner S, Barnett L, Katz ER, Crick FH.**

Nature. 1967 Feb 4;213(5075):449-50. No abstract available.

PMID: 6032223 [PubMed - indexed for MEDLINE]

[Related citations](#)

[The genetic code. 3.](#)

4. **Crick FH.**

Sci Am. 1966 Oct;215(4):55-60 passim. No abstract available.

PMID: 5916452 [PubMed - indexed for MEDLINE]

[Related citations](#)

[Codon--anticodon pairing: the wobble hypothesis.](#)

5. **Crick FH.**

J Mol Biol. 1966 Aug;19(2):548-55. No abstract available.

PMID: 5969078 [PubMed - indexed for MEDLINE]

[Related citations](#)

# Esercizi

- Di quante pubblicazioni risulta autore J.E. Rothman?
- In quante figura come ultimo autore?
- In quante di quest'ultime la parola “Golgi” compare nel titolo?
- Quante pubblicazioni di cui JE Rothman e' ultimo autore sono comparse su “Nature” o “Science”?
- Quante di queste contengono la parola “SNARE” oppure “SNAREs” nel titolo?



# Il problema del vocabolario

- Una ricerca per argomento basata sul titolo puo' essere resa complicata dall'esistenza di sinonimi
  - “breast cancer” [ti] OR “breast tumor” [ti] OR “mammary neoplasia”...
- Il problema puo' essere risolto ricorrendo a un *vocabolario controllato*:
  - Si decide “una volta per tutte” come chiamare una certa cosa

# Medical Subject Headings

- Vocabolario controllato
- Struttura gerarchica
  - organizzazione ad alberi
- 16 alberi
  - [MeSH trees](#)

## Face

Cheek  
Chin  
Eye  
    Eyebrows  
    Eyelids  
    Eyelashes  
Forehead  
Mouth  
    Lip  
Nose  
Parotid Region

# Automatic explosion

Eye



Eye  
Eyebrows  
Eyelids  
Eyelashes

Mouth



Mouth  
Lip

Face



Face  
Cheek  
Eye  
Eyebrows  
Eyelids  
Eyelashes  
Mouth  
Lip

# Percorsi alternativi

Anatomy  
Head  
Face  
Eye  
Eyebrows  
Eyelids

Anatomy  
Sense organs  
Eye  
Eyelids  
Retina  
Sclera

Automatic explosion

Eye



Eye  
Eyebrows  
Eyelids  
Retina  
Sclera

# MeSH in PubMed

- A ogni articolo sono (manualmente) associati i MeSH term rilevanti
- I termini più direttamente rilevanti sono indicati da un asterisco \*
- I termini MeSH possono essere accompagnati da un subheading:
  - MeSH term/subheading



## MeSH

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

- Gli articoli di PubMed vengono *manualmente* associati a uno o più termini MeSH rilevanti
  - Non c'è “genetic code” nel titolo, ma l'articolo parla di codice genetico

NCBI Resources How To

PubMed.gov  
US National Library of Medicine  
National Institutes of Health

PubMed crick FH[au] AND "codon"[ti]

RSS Save search Advanced

Display Settings: Abstract

J Mol Biol. 1966 Aug;19(2):548-55.

**Codon--anticodon pairing: the wobble hypothesis.**

Crick FH.

PMID: 5969078 [PubMed - Indexed for MEDLINE]

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**MeSH Terms, Substances**

---

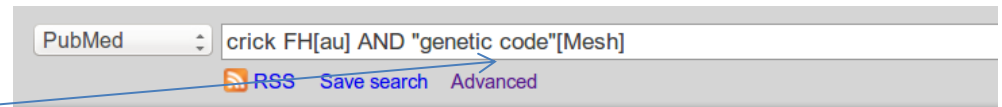
**MeSH Terms**

- Adenine\*
- Cytosine\*
- Genetic Code\*
- Guanine\*
- Molecular Biology
- Nucleosides\*
- Uracil\*

**Substances**

- Nucleosides
- Uracil
- Guanine
- Cytosine
- Adenine

- Ricerca nel campo Mesh



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**Results: 9**

- [Chromosome structure and function. Future prospects.](#)  
**Crick FH.**  
Eur J Biochem. 1978 Feb 1;83(1):1-3. No abstract available.  
PMID: 272286 [PubMed - indexed for MEDLINE] **Free Article**  
[Related citations](#)
- [A speculation on the origin of protein synthesis.](#)  
**Crick FH, Brenner S, Klug A, Pieczenik G.**  
Orig Life. 1976 Dec;7(4):389-97.  
PMID: 1023138 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [The origin of the genetic code.](#)  
**Crick FH.**  
J Mol Biol. 1968 Dec;38(3):367-79. No abstract available.  
PMID: 4887876 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [The absolute sign of certain phase-shift mutants in bacteriophage T4.](#)  
**Crick FH, Brenner S.**  
J Mol Biol. 1967 Jun 14;26(2):361-3. No abstract available.  
PMID: 6034781 [PubMed - indexed for MEDLINE]  
[Related citations](#)

– Questi articoli sarebbero sfuggiti a una ricerca per titolo

Dalla pagina di MeSH si possono:

- creare ricerche complesse combinando diversi termini MeSH
- Usare i *subheadings* per focalizzare la ricerca su aspetti particolari

Genetic Code - MeSH - NCBI - Mozilla Firefox

Genetic Code - MeSH - NCBI

www.ncbi.nlm.nih.gov/mesh/68005815

MeSH

MeSH

Search

Limits Advanced Help

Display Settings: Full

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PubMed Search Builder

Genetic Code

The meaning ascribed to the BASE SEQUENCE with respect to how it is translated into AMINO ACID SEQUENCE. The start, stop, and order of amino acids of a protein is specified by consecutive triplets of nucleotides called codons (CODON).  
Year introduced: 1966(1964)

PubMed search builder options

Subheadings:

- administration and dosage
- adverse effects
- analysis
- anatomy and histology
- antagonists and inhibitors
- biosynthesis
- blood
- chemical synthesis
- chemistry
- classification
- cytology
- drug effects
- etiology
- genetics
- history
- immunology
- isolation and purification
- metabolism
- pharmacology
- physiology
- radiation effects
- therapeutic use
- toxicity
- ultrastructure

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): G05.360.335

Entry Terms:

- Code, Genetic
- Codes, Genetic
- Genetic Codes

See Also:

- [Protein Biosynthesis](#)
- [Histone Code](#)

All MeSH Categories

www.nlm.nih.gov/cgi/mesh/2014/MB\_cgi?term=Genetic Code

Add to search builder AND Search PubMed

YouTube Tutorial

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

Recent Activity

Turn Off Clear

Genetic Code MeSH

"genetic code" (9) MeSH

crick FH[au] AND "genetic code"[Mesh] (9) PubMed

Codon-anticodon pairing: the wobble hypothesis. PubMed

crick FH[au] AND "codon"[ti] (1) PubMed

See more...



# Diagnosis of bursitis in the knee joint

MeSH    [Save search](#) [Limits](#) [Advanced](#) [Help](#)

[Display Settings:](#)  Full

## Bursitis

Inflammation or irritation of a bursa, the fibrous sac that acts as a cushion between moving structures of bones, muscles, tendons or skin.

PubMed search builder options

[Subheadings:](#)

<input type="checkbox"/> analysis	<input type="checkbox"/> etiology	<input type="checkbox"/> psychology
<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> genetics	<input type="checkbox"/> radiography
<input type="checkbox"/> blood	<input type="checkbox"/> history	<input type="checkbox"/> radionuclide imaging
<input type="checkbox"/> chemically induced	<input type="checkbox"/> immunology	<input type="checkbox"/> radiotherapy
<input type="checkbox"/> classification	<input type="checkbox"/> metabolism	<input type="checkbox"/> rehabilitation
<input type="checkbox"/> complications	<input type="checkbox"/> microbiology	<input type="checkbox"/> statistics and numerical data
<input type="checkbox"/> cytology	<input type="checkbox"/> mortality	<input type="checkbox"/> surgery
<input checked="" type="checkbox"/> diagnosis	<input type="checkbox"/> nursing	<input type="checkbox"/> therapy
<input type="checkbox"/> diet therapy	<input type="checkbox"/> organization and administration	<input type="checkbox"/> ultrasonography
<input type="checkbox"/> drug therapy	<input type="checkbox"/> pathology	<input type="checkbox"/> urine
<input type="checkbox"/> economics	<input type="checkbox"/> physiology	<input type="checkbox"/> veterinary
<input type="checkbox"/> enzymology	<input type="checkbox"/> physiopathology	<input type="checkbox"/> virology
<input type="checkbox"/> epidemiology	<input type="checkbox"/> prevention and control	

Restrict to MeSH Major Topic.  
 Do not include MeSH terms found below this term in the MeSH hierarchy.

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**PubMed Search Builder**

"Bursitis/diagnosis" [Majr]

**Related information**

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Vogliamo che "bursitis" sia un "major topic" degli articoli trovati

Subheading: diagnosis

Creazione automatica di una Pubmed search

[Display Settings:](#)  Full

## Knee Joint

Year introduced: 1965

PubMed search builder options

[Subheadings:](#)

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> abnormalities         | <input type="checkbox"/> growth and development | <input type="checkbox"/> radiography          |
| <input type="checkbox"/> analysis              | <input type="checkbox"/> immunology             | <input type="checkbox"/> radionuclide imaging |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> injuries               | <input type="checkbox"/> radiotherapy         |
| <input type="checkbox"/> blood supply          | <input type="checkbox"/> innervation            | <input type="checkbox"/> secretion            |
| <input type="checkbox"/> chemistry             | <input type="checkbox"/> metabolism             | <input type="checkbox"/> surgery              |
| <input type="checkbox"/> cytology              | <input type="checkbox"/> microbiology           | <input type="checkbox"/> therapy              |
| <input type="checkbox"/> diagnosis             | <input type="checkbox"/> parasitology           | <input type="checkbox"/> transplantation      |
| <input type="checkbox"/> drug effects          | <input type="checkbox"/> pathology              | <input type="checkbox"/> ultrasonography      |
| <input type="checkbox"/> embryology            | <input type="checkbox"/> physiology             | <input type="checkbox"/> ultrastructure       |
| <input type="checkbox"/> enzymology            | <input type="checkbox"/> physiopathology        | <input type="checkbox"/> virology             |
| <input type="checkbox"/> etiology              | <input type="checkbox"/> radiation effects      |   |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

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### PubMed Search Builder

```
("Bursitis/diagnosis"[Majr]) AND  
"Knee Joint"[Mesh]
```

Add to search builder

AND

Search PubMed

[YouTube](#) [Tutorial](#)

### Related information

[PubMed](#)

[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH/Browser](#)

### Recent Activity

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[Knee Joint](#)

Cerchiamo "knee joint" in MeSH

Combiniamo con la search precedente usando "AND"

# Filtri

I filtri consentono di selezionare tra i risultati di una ricerca gli articoli che soddisfano particolari requisiti:

- Tipo di articolo (review, clinical trial, ecc.)
- Data di pubblicazione
- Eta' dei soggetti (bambini, adulti, anziani...)

[Show additional filters](#)

**Display Settings:**  Summary, 20 per page, Sorted by Recently Added

**Send to:**

- Article types**
- Clinical Trial
  - Clinical Trial, Phase IV
  - Review
  - Systematic Reviews
  - More ...

- Text availability**
- Abstract available
  - Free full text available
  - Full text available

- Publication dates**
- 5 years
  - 10 years
  - Custom range...

- Species**
- Humans
  - Other Animals

**Results: 1 to 20 of 42381**

<< First < Prev Page  of 2120 Next > Last >>

- [\[Alemtuzumab and teriflunomide approved\].](#)  
1. Fischer S.  
Med Monatsschr Pharm. 2013 Oct;36(10):393-4. German. No abstract available.  
PMID: 24266250 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Multiple Sclerosis International Federation: stimulating international cooperation in research.](#)  
2. Thompson AJ, Chandraratna D.  
Neurology. 2013 Nov 12;81(20):1793-5. doi: 10.1212/01.wnl.0000435552.67953.c8.  
PMID: 24218313 [PubMed - indexed for MEDLINE]  
[Related citations](#)
- [Vitamin D immunomodulatory potential in multiple sclerosis.](#)  
3. Slavov GS, Trenova AG, Manova MG, Kostadinova II, Vasileva TV, Zahariev ZI.  
Folia Med (Plovdiv). 2013 Apr-Jun;55(2):5-9. Review.  
PMID: 24191393 [PubMed - indexed for MEDLINE]  
[Related citations](#)

Filtri

Numero enorme di articoli su una malattia importante

[Show additional filters](#)**Display Settings:**  Summary, 20 per page, Sorted by Recently Added**Send to:** [Clear all](#)**Article types**

clear

Clinical Trial

 **Clinical Trial, Phase IV**

More ...

**Text availability**

Abstract available

Free full text available

Full text available

**Publication dates**

5 years

10 years

Custom range...

**Species**

Humans

**Results: 18****i** Filters activated: Clinical Trial, Phase IV. [Clear all](#) to show 42381 items.

- [Utility of the Canadian Treatment Optimization Recommendations \(TOR\) in MS care.](#)
  1. Grand'Maison F, Bhan V, Freedman MS, Myles ML, Patry DG, Selchen DH, Moriarty P, Traboulee AL.  
Can J Neurol Sci. 2013 Jul;40(4):527-35.  
PMID: 23786735 [PubMed - indexed for MEDLINE]  
[Related citations](#)
  - [Immune response during interferon beta-1b treatment in patients with multiple sclerosis who experienced relapses and those who were relapse-free in the START study.](#)
    1. Dhib-Jalbut S, Sumandeeep S, Valenzuela R, Ito K, Patel P, Rametta M.  
J Neuroimmunol. 2013 Jan 15;254(1-2):131-40. doi: 10.1016/j.jneuroim.2012.08.012. Epub 2012 Sep 19.  
PMID: 22999187 [PubMed - indexed for MEDLINE]  
[Related citations](#)

# Esercizi

I seguenti esercizi possono essere svolti usando MeSH e filtri

- Problem: surgical or drug treatment of osteosarcoma in children (ononly articles in English)
- Problem: schizophrenia resulting from prenatal exposure to influenza

La history (accessibile da “Advanced”) contiene tutte le search svolte durante la sessione corrente.

## PubMed Advanced Search Builder

YouTube Tutorial

Use the builder below to create your search

[Edit](#)

[Clear](#)

### Builder

All Fields



[Show index list](#)

AND

All Fields



[Show index list](#)

[Search](#) or [Add to history](#)

### History

[Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
<a href="#">#12</a>	<a href="#">Add</a>	Search ("Bursitis/diagnosis"[Majr] AND "Knee Joint"[Mesh])	<a href="#">54</a>	03:02:59
<a href="#">#8</a>	<a href="#">Add</a>	Search rothman JE[lastau] AND (nature[ta] OR science[ta]) AND (SNARE[tj] OR SNAREs[tj])	<a href="#">6</a>	02:48:12
<a href="#">#7</a>	<a href="#">Add</a>	Search rothman JE[lastau] AND (nature[ta] OR science[ta])	<a href="#">25</a>	02:47:16
<a href="#">#6</a>	<a href="#">Add</a>	Search rothman JE[lastau]	<a href="#">162</a>	02:45:33
<a href="#">#5</a>	<a href="#">Add</a>	Search rothman JE[au]	<a href="#">230</a>	02:44:44
<a href="#">#4</a>	<a href="#">Add</a>	Search schekman R[au]	<a href="#">261</a>	02:44:08
<a href="#">#3</a>	<a href="#">Add</a>	Search schekman Rw[au]	<a href="#">23</a>	02:43:54
<a href="#">#2</a>	<a href="#">Add</a>	Search schekman RE[au] Schema: all	<a href="#">0</a>	02:43:40
<a href="#">#1</a>	<a href="#">Add</a>	Search schekman RE[au]	<a href="#">0</a>	02:43:40

(((rothman JE[lastau] AND (nature[ta] OR science[ta]))) AND Golgi[Title]) AND "Nature"[Journal]

[Edit](#) [Clear](#)

**Builder**

All Fields  [Show index list](#)

AND Title  [Show index list](#)

AND Journal  [Show index list](#)

AND All Fields  [Show index list](#)

or [Add to history](#)

---

**History** [Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
<a href="#">#12</a>	<a href="#">Add</a>	Search ("Bursitis/diagnosis"[Majr]) AND "Knee Joint"[Mesh]	<a href="#">54</a>	03:02:59
<a href="#">#8</a>	<a href="#">Add</a>	Search rothman JE[lastau] AND (nature[ta] OR science[ta]) AND (SNARE[ti] OR SNAREs[ti])	<a href="#">6</a>	02:48:12
<a href="#">#7</a>	<a href="#">Add</a>	Search rothman JE[lastau] AND (nature[ta] OR science[ta])	<a href="#">25</a>	02:47:16
<a href="#">#6</a>	<a href="#">Add</a>	Search rothman JE[lastau]	<a href="#">162</a>	02:45:33
<a href="#">#5</a>	<a href="#">Add</a>	Search rothman JE[au]	<a href="#">230</a>	02:44:44
<a href="#">#4</a>	<a href="#">Add</a>	Search schekman R[au]	<a href="#">261</a>	02:44:08
<a href="#">#3</a>	<a href="#">Add</a>	Search schekman Rw[au]	<a href="#">23</a>	02:43:54
<a href="#">#2</a>	<a href="#">Add</a>	Search schekman RE[au] Schema: all	<a href="#">0</a>	02:43:40
<a href="#">#1</a>	<a href="#">Add</a>	Search schekman RE[au]	<a href="#">0</a>	02:43:40

Search costruita dal search builder (editabile)


Le search contenute nella history possono essere combinate tra loro o con nuove search usando il search builder



PubMed

crick FH[au] AND "genetic code"[mesh]

Search

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[Chromosome structure and function. Future prospects.](#)

1. **Crick FH.**

Eur J Biochem. 1978 Feb 1;83(1):1-3. No abstract available.

PMID: 272286 [PubMed - indexed for MEDLINE] **Free Article**

[Related citations](#)

[A speculation on the origin of protein synthesis.](#)

2. **Crick FH, Brenner S, Klug A, Pieczenik G.**

Orig Life. 1976 Dec;7(4):389-97.

PMID: 1023138 [PubMed - indexed for MEDLINE]

[Related citations](#)

Humans (0)

[Items with Abstracts \(1\)](#)

Preschool Child (0)

Published in the last 5 ye

Randomized Controlled

Review (0)

Therapy/Broad (0)

Il risultato di una ricerca puo' essere salvato in diversi modi:

- su un file di testo
- nella clipboard (blocco appunti su PubMed)
- mandato via email

# My NCBI

- La clipboard scompare quando si termina la sessione
- Per conservare informazione in modo permanente si puo' creare un account su NCBI
- Effettuando il login al vostro account potete:
  - Creare delle *collections* (collezioni di articoli derivanti da una o piu' ricerche e selezioni, conservate in modo permanente sul sito di PubMed)
    - E' possibile rendere le proprie collections pubbliche (con URL)
  - Definire delle *saved searches* in modo da essere aggiornati periodicamente su nuovi articoli usciti che rientrino nei criteri della vostra ricerca
  - Creare dei *filtri* personalizzati

Results: 1 to 20 of 25 Selected: 4

- [Alternative zippering as an on-off switch for SNARE-mediated fusion.](#)  
1. **Giraudo CG, Garcia-Diaz A, Eng WS, Chen Y, Hendrickson WA, Melia T**  
**Science.** 2009 Jan 23;323(5913):512-6. doi: 10.1126/science.1166500.  
PMID: 19164750 [PubMed - indexed for MEDLINE] **Free PMC Article**  
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- [Membrane fusion: grappling with SNARE and SM proteins.](#)  
2. **Südhof TC, Rothman JE.**  
**Science.** 2009 Jan 23;323(5913):474-7. doi: 10.1126/science.1161748. Review.  
PMID: 19164740 [PubMed - indexed for MEDLINE] **Free PMC Article**  
[Related citations](#)
- [A clamping mechanism involved in SNARE-dependent exocytosis.](#)  
3. **Giraudo CG, Eng WS, Melia TJ, Rothman JE.**  
**Science.** 2006 Aug 4;313(5787):676-80. Epub 2006 Jun 22.  
PMID: 16794037 [PubMed - indexed for MEDLINE] **Free Article**  
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- [Fusion of cells by flipped SNAREs.](#)  
4. **Hu C, Ahmed M, Melia TJ, Söllner TH, Mayer T, Rothman JE.**  
**Science.** 2003 Jun 13;300(5626):1745-9.  
PMID: 12805548 [PubMed - indexed for MEDLINE] **Free Article**  
[Related citations](#)
- [Topological restriction of SNARE-dependent membrane fusion.](#)  
5. **Parlati F, McNew JA, Fukuda R, Miller R, Söllner TH, Rothman JE.**  
**Nature.** 2000 Sep 14;407(6801):194-8.  
PMID: 11001058 [PubMed - indexed for MEDLINE] **Free Article**  
[Related citations](#)
- [Compartmental specificity of cellular membrane fusion encoded in SNARE proteins.](#)  
6. **McNew JA, Parlati F, Fukuda R, Johnston RJ, Paz K, Paumet F, Söllner TH, Rothman JE.**  
**Nature.** 2000 Sep 14;407(6801):153-9.  
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Science. 2006 Aug 4;313(5787):676-80. Epub 2006 Jun 22.  
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- 2:  [Alternative zippering as an on-off switch for SNARE-mediated fusion.](#)  
Giraud CG, Garcia-Diaz A, Eng WS, Chen Y, Hendrickson WA, Melia TJ, Rothman JE.  
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Hu C, Ahmed M, Melia TJ, Söllner TH, Mayer T, Rothman JE.  
Science. 2003 Jun 13;300(5626):1745-9.  
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- 4:  [Compartmental specificity of cellular membrane fusion encoded in SNARE proteins.](#)  
McNew JA, Parlati F, Fukuda R, Johnston RJ, Paz K, Paumet F, Söllner TH, Rothman JE.  
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Giraud CG, Garcia-Diaz A, Eng WS, Chen Y, Hendrickson WA, Melia TJ, Rothman JE.  
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- 3:  [Fusion of cells by flipped SNAREs.](#)  
Hu C, Ahmed M, Melia TJ, Söllner TH, Mayer T, Rothman JE.  
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Nature. 2000 Sep 14;407(6801):153-9.  
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# Esercizi

Creare due collection pubbliche contenenti ciascuna 10 articoli scelti tra i risultati delle seguenti search:

- Review articles in English about the relevance of vitamin D in multiple sclerosis
- Phase III clinical trials for drugs to be used in congestive heart failure