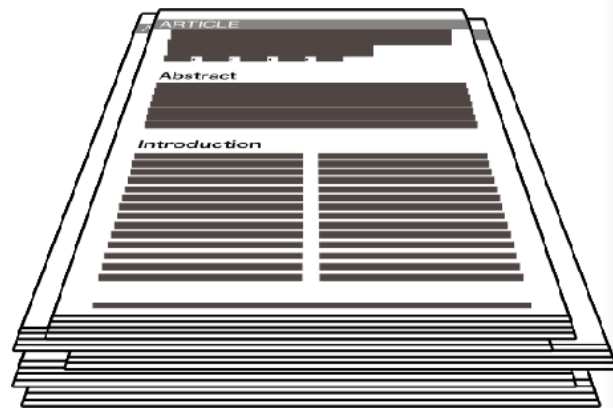


文献検索／論文執筆支 援サービスの活用法

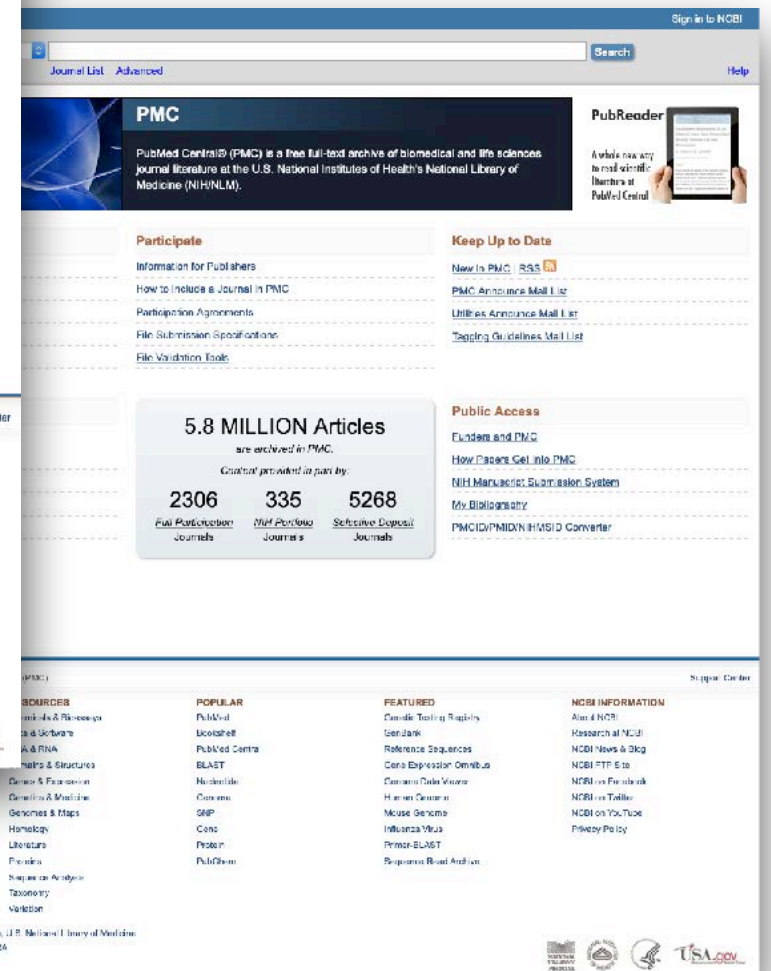
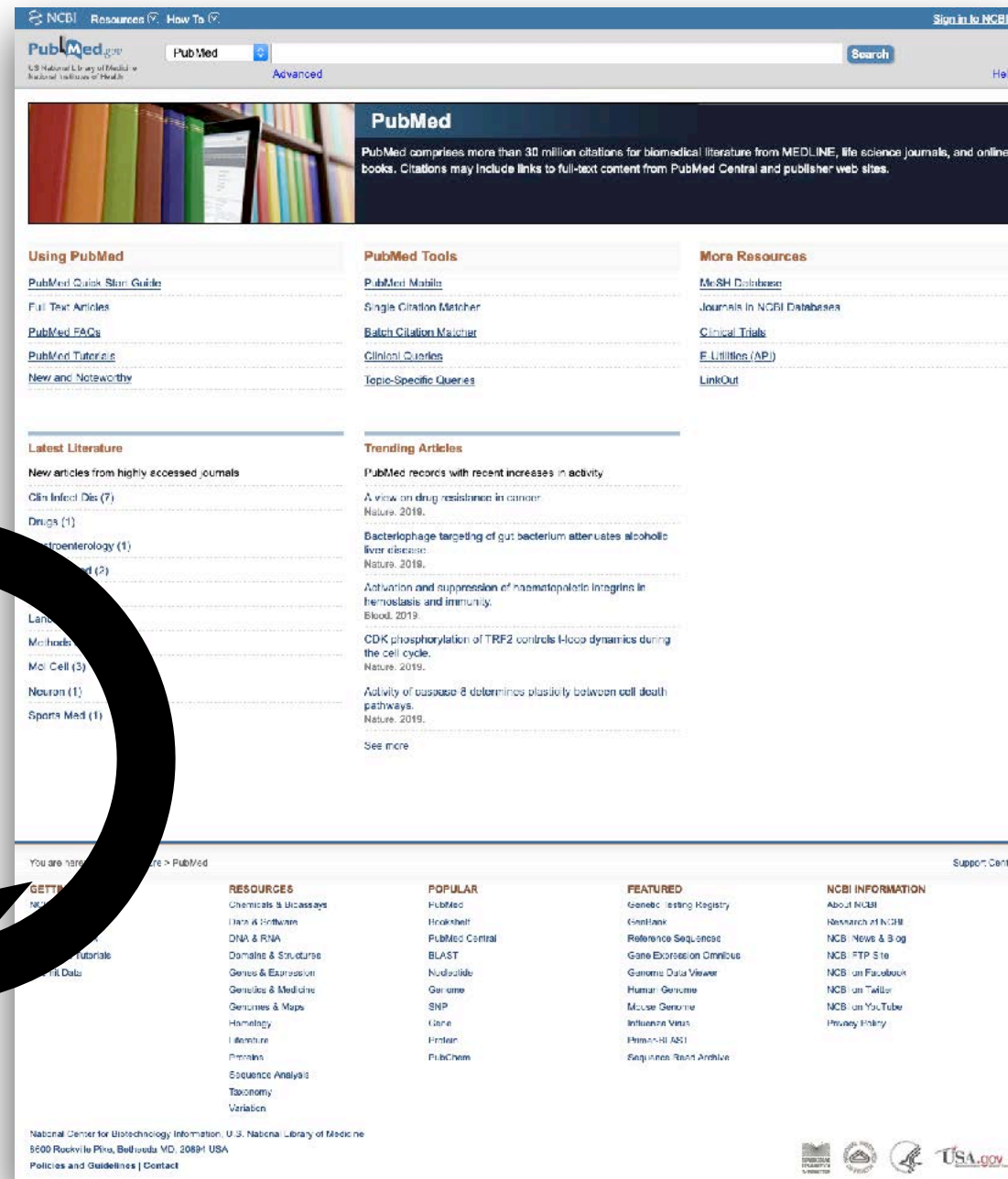
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@yayamamo

文献情報



文献



文献知識抽出

**DBCLS**
Database Center
for Life Science

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EnglishJapanese

サービス一覧

Services

サービス一覧

カテゴリ

- すべて
- データベース統合
- 教材・資料
- ゲノム
- 遺伝子
- 遺伝子発現
- NGS
- 疾患
- 自然言語処理
- SPARQL検索
- RDF作成

ユーザ

- すべて
- データベース利用者
- アプリケーション開発者
- 大規模データ解析者
- データ所有者

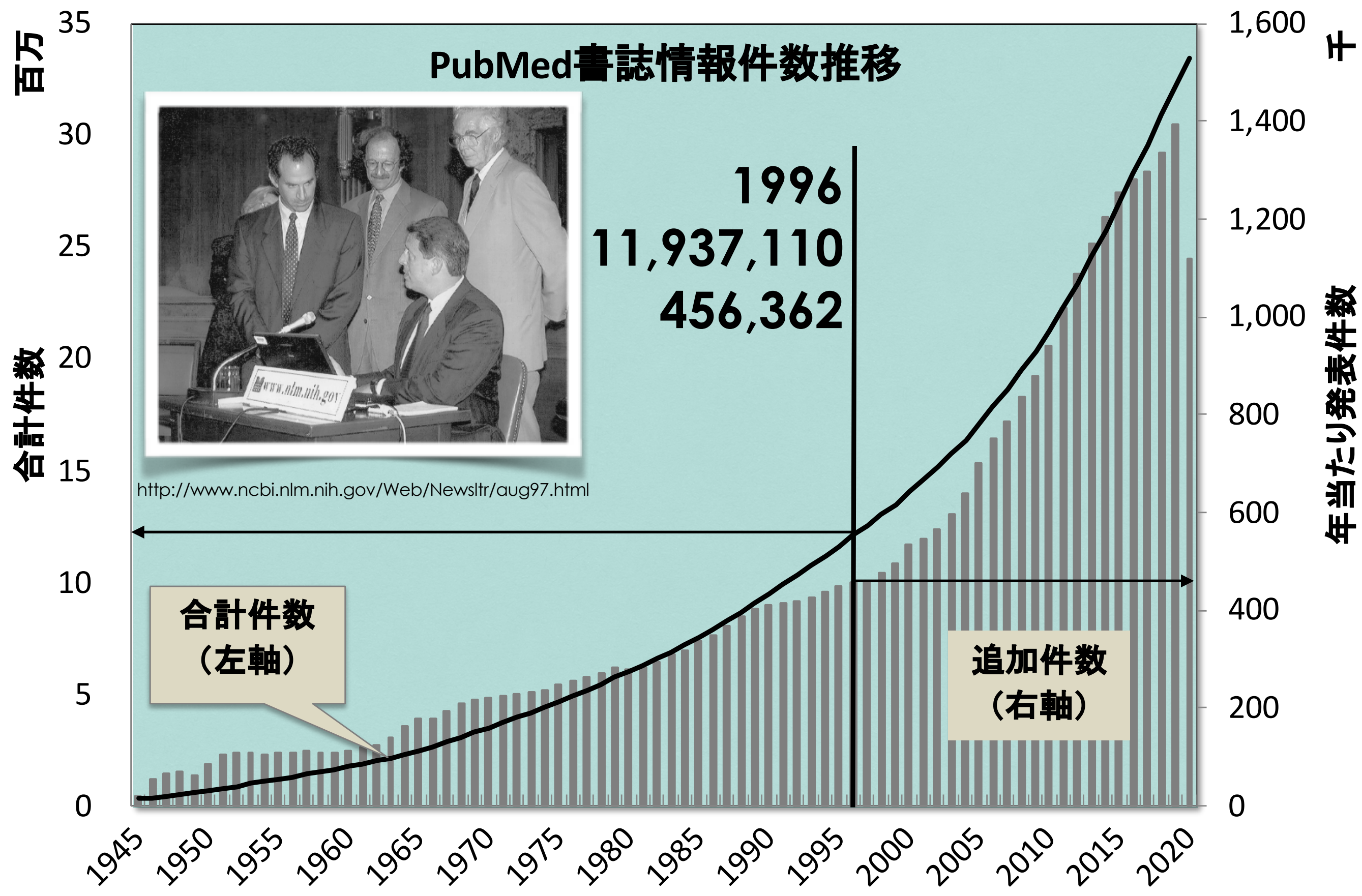
引用文献一覧

 PubAnnotation 文献アノテーションのレポジトリ。特にPubMedに対してのアノテーションを統合している。 ● 自然言語処理 ● アプリケーション開発者 ● データ所有者 詳細 アクセス	 PubDictionaries テキストマイニング用辞書のレポジトリ。だれでも辞書のアップロードができて、辞書を使ってテキストアノテーションもできます。 ● 自然言語処理 ● アプリケーション開発者 ● データ所有者 詳細 アクセス	 inMeXes 生命科学系の文献に頻出する英語表現を、1文字の入力ごとに高速に再検索します。 ● 自然言語処理 ● データベース利用者 ● アプリケーション開発者 詳細 アクセス
 Allie 文献中に登場する略語とその正式名称の組およびその付随情報を検索します。 ● 自然言語処理 ● データベース利用者 詳細 アクセス	 Colil ある論文が他の論文から引用されているとき、本文中ではどのような文脈で引用されているかについて、効率良く検索します。 ● 自然言語処理 ● データベース利用者 詳細 アクセス	 LSD RDF Data Portal ライフサイエンス辞書にSPARQLでアクセスできるサービスです。 ● 自然言語処理 ● アプリケーション開発者 詳細 アクセス

PubMed最新情報



on June 26, 1997, a Capitol Hill Press conference officially announced free MEDLINE access via PubMed.



現状

- 3000万件を超える文献情報
(20/9/9時点で31,474,326
19/11/25時点で30,348,625)
- 2019年発表分だけで1,392,400件 (3815件/日)
- 5200件を超える学術

	FY2019	FY2018	FY2017	FY2016	FY2015	FY2014	FY2013
PubMed Searches	3.3 Billion	3.3 Billion	3.3 Billion	3.1 Billion	2.8 Billion	2.7 Billion	2.5 Billion
Web/Interactive	896 Million	831 Million	846 Million	853 Million	910 Million	900 Million	932 Million
Script/E-Utilities	2.2 Billion	2.5 Billion	2.5 Billion	2.2 Billion	1.9 Billion	1.8 Billion	1.6 Billion

https://www.nlm.nih.gov/bsd/medline_pubmed_production_stats.html



National Library of
Medicine

Log in

PubMed.gov

Search PubMed



Advanced

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About PubMed
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Trending articles

1,000 results



1

Effects of COVID-19 on the Nervous System.

Iadecola C, et al. Cell. 2020.

PMID: 32882182 **Free PMC article.** Review.

“ Cite Share



2

LifeTime and improving European healthcare through cell-based interceptive medicine.

Rajewsky N, et al. Nature. 2020.

PMID: 32894860 Review.

“ Cite Share



3

India loses contact with its Moon lander minutes before touchdown.

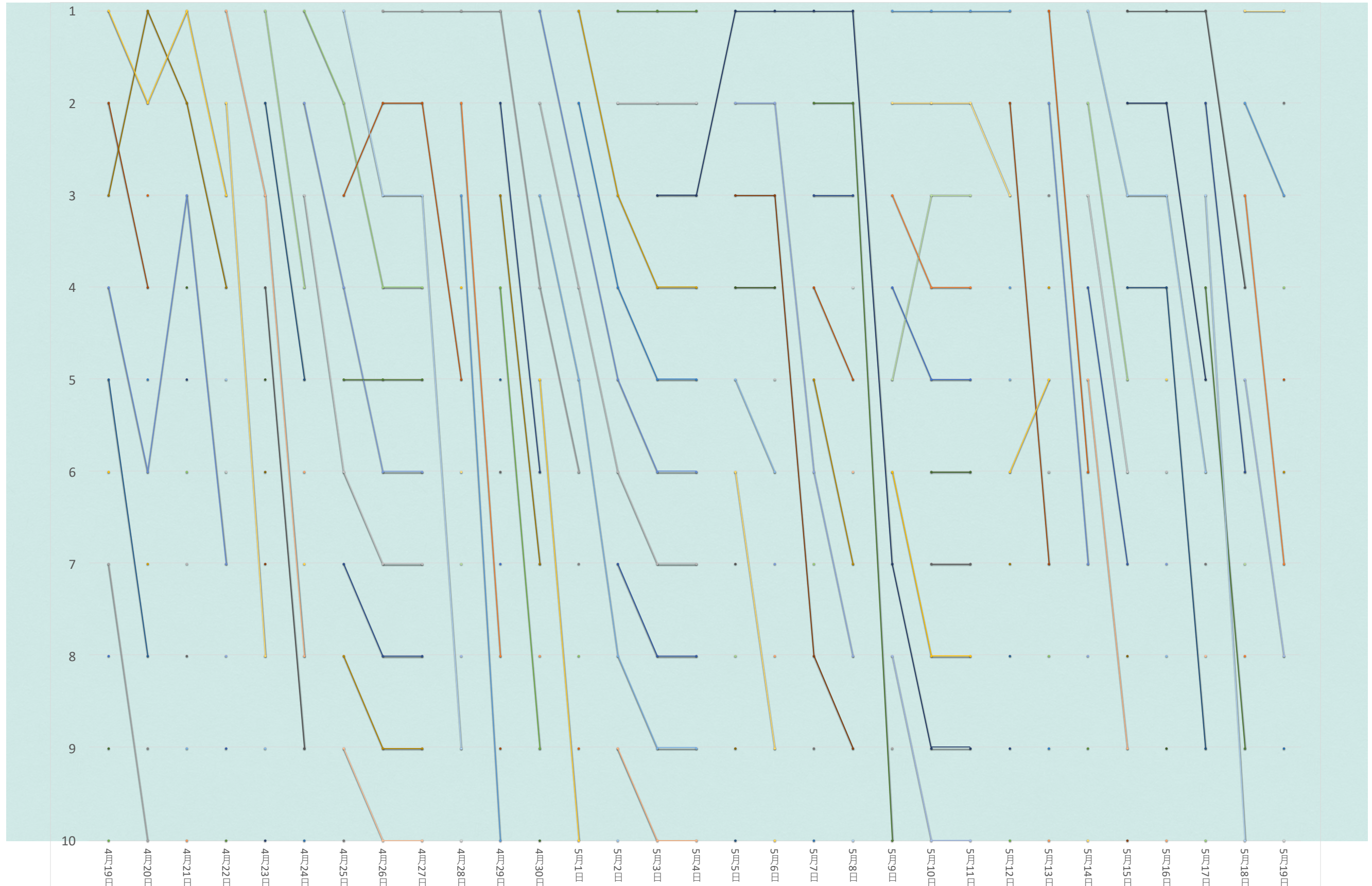
Padma TV. Nature. 2019. PMID: 32892215

No abstract available.

“ Cite Share



Trending articlesのトレンド



PubMed最新情報

The screenshot shows the legacy PubMed website. At the top, there's a navigation bar with 'NCBI', 'Resources', 'How To', and 'Sign in to NCBI'. Below this is a search bar with 'PubMed' entered and a 'Search' button. A pink banner contains COVID-19 information. A yellow banner provides a notice about the legacy version's availability. The main content area features a 'PubMed' header with a description of the database. Below this are three columns: 'Using PubMed' (with links like Quick Start Guide, Full Text Articles, etc.), 'PubMed Tools' (with links like Mobile, Citation Matcher, etc.), and 'More Resources' (with links like MeSH Database, Clinical Trials, etc.). At the bottom, there are sections for 'Latest Literature' and 'Trending Articles'.

NCBI Resources How To Sign in to NCBI

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US National Library of Medicine
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Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

Thanks for continuing to use PubMed. We anticipate that this legacy version will be available through at least 10/31/2020.
As a reminder, we now have a new version of PubMed. Please get to know the new PubMed and use the Feedback link for comments & questions.
[Frequently asked questions](#)

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[Journals in NCBI Databases](#)
[Clinical Trials](#)
[E-Utilities \(API\)](#)
[LinkOut](#)

Latest Literature
New articles from highly accessed journals
Blood (3)
Cell (1)
Cochrane Database Syst Rev (2)
J Biol Chem (5)
J Clin Oncol (1)
JAMA (5)

Trending Articles
PubMed records with recent increases in activity
Effects of COVID-19 on the Nervous System.
Cell. 2020.
LifeTime and improving European healthcare through cell-based interceptive medicine.
Nature. 2020.
India loses contact with its Moon lander minutes before touchdown.
Nature. 2019.

The screenshot shows the new PubMed.gov website. It has a dark blue header with the NIH logo and 'National Library of Medicine National Center for Biotechnology Information'. A 'Log in' button is in the top right. Below the header is a large search bar with 'Search PubMed' and a green 'Search' button. A description of PubMed is provided. The main content area is divided into four columns: 'Learn' (About PubMed, FAQs & User Guide, Finding Full Text), 'Find' (Advanced Search, Clinical Queries, Single Citation Matcher), 'Download' (E-utilities API, FTP, Batch Citation Matcher), and 'Explore' (MeSH Database, Journals, Legacy PubMed). At the bottom, there are tabs for 'Trending Articles' and 'Latest Literature', and a green 'Feedback' button.

NIH National Library of Medicine
National Center for Biotechnology Information

Log in

PubMed.gov

Search PubMed Search

Advanced

PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

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[FTP](#)
[Batch Citation Matcher](#)

Explore
[MeSH Database](#)
[Journals](#)
[Legacy PubMed \(available until at least 10/31/2020\)](#)

Trending Articles | **Latest Literature** [Feedback](#)

2020年から大きく変化

2020年1月

現行版PubMedの試験運用

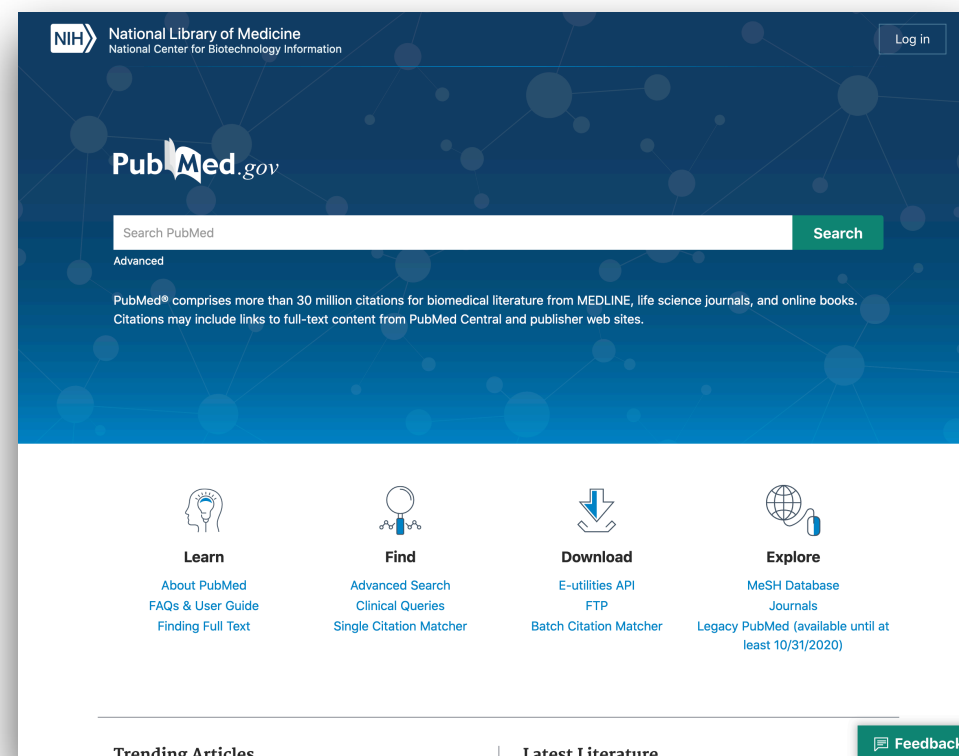
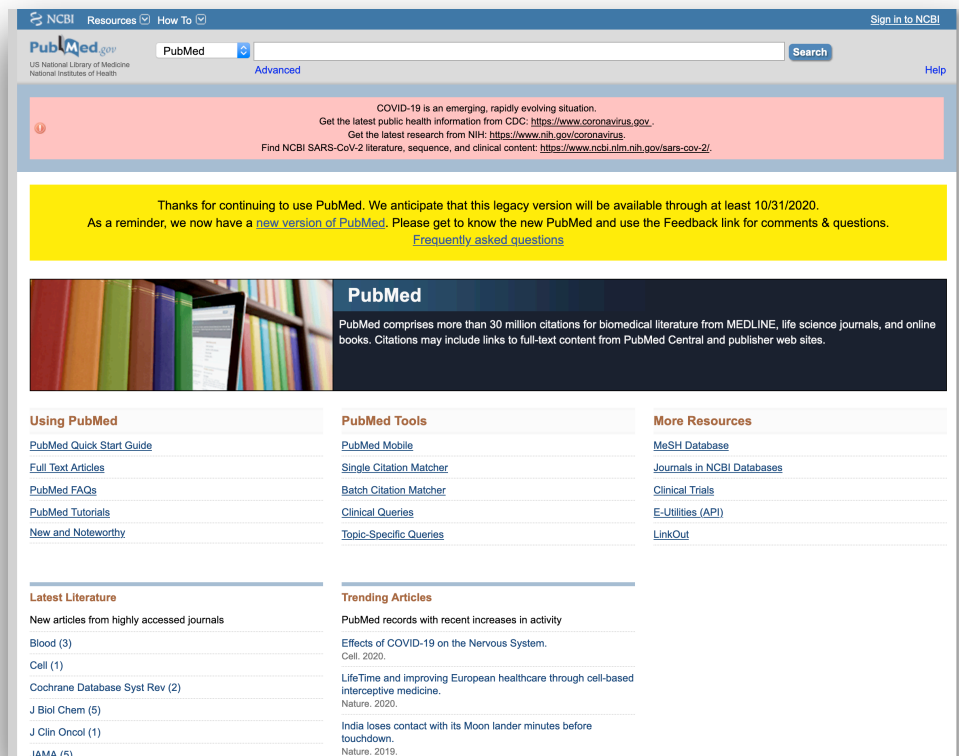
正式版のPubMed

従来版PubMed

(10/31までは利用可能)



NCBI資料より (<https://go.usa.gov/xVcdT>)



新PubMedの目標

- Modern cloud architecture
- High-quality search
- Fast
- Reliable
- Modern experience
- Beloved



SARS-CoV-2



Search

[Advanced](#) [Create alert](#) [Create RSS](#)

[User Guide](#)

Save

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Sorted by: Best match

Display options

MY NCBI FILTERS

29,637 results

RESULTS BY YEAR



TEXT AVAILABILITY

- ☐ Abstract
- ☐ Free full text
- ☐ Full text

ARTICLE ATTRIBUTE

- ☐ Associated data

ARTICLE TYPE

- ☐ Books and Documents
- ☐ Clinical Trial
- ☐ Meta-Analysis
- ☐ Randomized Controlled Trial
- ☐ Review

☐ [Updated Approaches against SARS-CoV-2.](#)

1 Li H, Zhou Y, Zhang M, Wang H, Zhao Q, Liu J.

Cite [Antimicrob Agents Chemother.](#) 2020 May 21;64(6):e00483-20. doi: 10.1128/AAC.00483-20. Print 2020 May 21.

Share PMID: 32205349 [Free PMC article.](#) [Review.](#)

Novel **severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)** lies behind the ongoing outbreak of **coronavirus** disease 2019 (COVID-19). There is a growing understanding of **SARS-CoV-2** in ...

☐ [Coronaviruses and SARS-CoV-2: A Brief Overview.](#)

2 Ludwig S, Zarbock A.

Cite [Anesth Analg.](#) 2020 Jul;131(1):93-96. doi: 10.1213/ANE.0000000000004845.

Share PMID: 32243297 [Free PMC article.](#) [Review.](#)

The virus was later denominated **severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)** and defined as the causal agent of **coronavirus** disease 2019 (COVID-19). ...Here we provide a short background on coro ...

☐ [Treatment of SARS-CoV-2: How far have we reached?](#)

3 Ahsan W, Javed S, Bratty MA, Alhazmi HA, Najmi A.

Cite [Drug Discov Ther.](#) 2020 May 6;14(2):67-72. doi: 10.5582/ddt.2020.03008. Epub 2020 Apr 25.

Share PMID: 32336723 [Free article.](#) [Review.](#)

The virus **severe acute respiratory syndrome-coronavirus-2 (SARS-CoV-2)** is currently affecting more than 200 countries and territories worldwide. ...Currently, no treatment for **SARS-CoV-2** are appro ...

☐ [SARS-CoV-2: an Emerging Coronavirus that Causes a Global Threat.](#)

Feedback



SARS-CoV-2



Search

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Review > Int J Biol Sci. 2020 Mar 15;16(10):1678-1685. doi: 10.7150/ijbs.45053.

eCollection 2020.

SARS-CoV-2: an Emerging Coronavirus that Causes a Global Threat

Jun Zheng^{1 2}

Affiliations + expand

PMID: 32226285 PMCID: PMC7098030 DOI: 10.7150/ijbs.45053

Free PMC article

Abstract

An ongoing outbreak of pneumonia caused by a novel coronavirus, currently designated as the severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2), was reported recently. However, as SARS-CoV-2 is an emerging virus, we know little about it. In this review, we summarize the key events occurred during the early stage of SARS-CoV-2 outbreak, the basic characteristics of the pathogen, the signs and symptoms of the infected patients as well as the possible transmission pathways of the virus. Furthermore, we also review the current knowledge on the origin and evolution of the SARS-CoV-2. We highlight bats as the potential natural reservoir and pangolins as the possible intermediate host of the virus, but their roles are waiting for further investigation. Finally, the advances in the development of chemotherapeutic options are also briefly summarized.

FULL TEXT LINKS



ACTIONS

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Conflict of interest statement

Figures

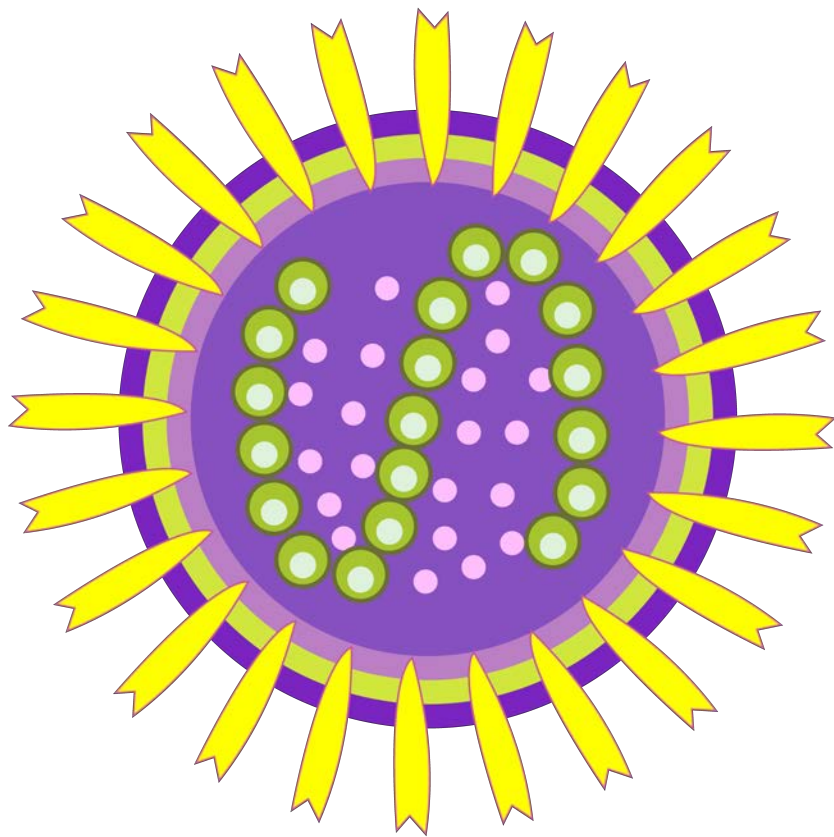
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5 of 29,637 >

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LinkOut - more resources

MeSH terms



MeSH terms

- > Animals
- > Betacoronavirus / classification*
- > Chiroptera / virology*
- > Clinical Trials as Topic
- > Coronavirus Infections / diagnosis*
- > Coronavirus Infections / drug therapy
- > Coronavirus Infections / physiopathology
- > Coronavirus Infections / transmission
- > Disease Outbreaks
- > Evolution, Molecular
- > Humans
- > Pandemics
- > Pneumonia, Viral / diagnosis*
- > Pneumonia, Viral / drug therapy
- > Pneumonia, Viral / physiopathology
- > Pneumonia, Viral / transmission
- > Zoonoses / virology*

MeSHタームの活用



MeSH (Medical Subject Headings)

ターム

- 概念階層関係を持つ統制語彙（語彙数は3万弱）で毎年更新される
- MEDLINE収録の全文献に対しNational Library of Medicine (NLM) の専門スタッフおよび契約事業者がMeSHタームを用いた注釈付けを行う
- 全員が生物医学関係の学士以上の学位を有す
- PubMed検索時に利用することで効率良く目的の文献を見つけられる
- MEDLINEの代表的な特徴
- セマンティックウェブにおけるデータ表現、RDFによる配布も

2020新登場

300近く (≒1%) のMeSHタームが新たに追加される

Ambient Intelligence

Augmented Reality

Blockchain

Internet of Things

Internet-Based Intervention

Smart Glasses

削除されるターム群

Fate of Descriptor Deletes for 2020 MeSH

Deleted Heading		Heading Maintained to	
Descriptor UI	Heading	Descriptor UI	Heading
D032484	Taxodiaceae	D029779	Cupressaceae
D002362	Cascara	D031955	Rhamnus
D031826	Punicaceae	D029561	Lythraceae
D032482	Coniferophyta	D064028	Tracheophyta
D001668	Biobibliography as Topic	D020467	Biobibliography*

*term not maintained in MeSH

2021年のMeSHは2020年10月頃に決定

現在はプレビュー版を閲覧できる

The screenshot shows the NIH U.S. National Library of Medicine website. The header includes the NIH logo and navigation links: Search, Tree View, MeSH on Demand, MeSH 2020, MeSH Suggestions, About MeSH Browser, and Contact Us. The main heading is "Medical Subject Headings 2021". Below it, a note states: "The files are updated each week day Monday-Friday by 8AM EST". The search interface includes a search bar labeled "Search MeSH...", a dropdown menu for "FullWord", and buttons for "Exact Match", "All Fragments", and "Any Fragment". On the left, there are radio buttons for various search criteria: "All Terms", "Main Heading (Descriptor) Terms" (selected), "Qualifier Terms", "Supplementary Concept Record Terms", "MeSH Unique ID", "Search in all Supplementary Concept Record Fields" (with sub-options "Heading Mapped To" and "Indexing Information"), "Pharmacological Action", "Search Related Registry and CAS Registry/EC Number/UNII Code (RN)" (with sub-options "Related Registry Search" and "CAS Registry/EC Number/UNII Code (RN)"), and "Search in all Free Text Fields" (with sub-options "Annotation", "ScopeNote", and "SCR Note"). On the right, there are dropdown menus for "Sort by: Relevance" and "Results per Page: 20". The footer contains copyright information, privacy links, and the USA.gov logo.

NIH U.S. National Library of Medicine

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Medical Subject Headings 2021

The files are updated each week day Monday-Friday by 8AM EST

Search MeSH... FullWord Exact Match All Fragments Any Fragment

☐ All Terms

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☐ Qualifier Terms

☐ Supplementary Concept Record Terms

☐ MeSH Unique ID

☐ Search in all Supplementary Concept Record Fields

☐ Heading Mapped To

☐ Indexing Information

☐ Pharmacological Action

☐ Search Related Registry and CAS Registry/EC Number/UNII Code (RN)

☐ Related Registry Search

☐ CAS Registry/EC Number/UNII Code (RN)

☐ Search in all Free Text Fields

☐ Annotation

☐ ScopeNote

☐ SCR Note

Sort by: Relevance

Results per Page: 20

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Get the latest research from NIH: <https://www.nih.gov/coronavirus>.

Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

Thanks for continuing to use PubMed. We anticipate that this legacy version will be available through at least 10/31/2020.

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Latest Literature

New articles from highly accessed journals

Blood (3)

Cell (1)

Cochrane Database Syst Rev (2)

J Biol Chem (5)

J Clin Oncol (1)

JAMA (5)

Trending Articles

PubMed records with recent increases in activity

Effects of COVID-19 on the Nervous System.
Cell. 2020.

LifeTime and improving European healthcare through cell-based interceptive medicine.
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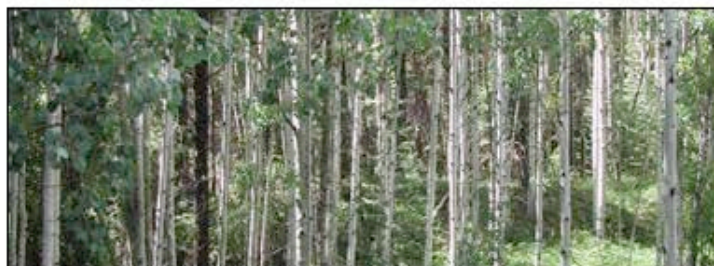
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Get the latest research from NIH: <https://www.nih.gov/coronavirus>.
Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.



MeSH

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

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Get the latest research from NIH: <https://www.nih.gov/coronavirus>.
Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

Summary 20 per page Send to: PubMed Search Builder

Search results
Items: 1 to 20 of 35 << First < Prev Page 1 of 2 Next > Last >>

- ☐ [spike protein, SARS-CoV-2 \[Supplementary Concept\]](#)
1. Date introduced: March 19, 2020
- ☐ [COVID-19 diagnostic testing \[Supplementary Concept\]](#)
2. for isothermal amplification, loop-mediated see SCR LAMP assay and note there.
Date introduced: March 26, 2020
- ☐ [nucleocapsid protein, Coronavirus \[Supplementary Concept\]](#)
3. was SY to NM (viral N protein) till 1996; NM promoted to HM
Date introduced: September 19, 1996
- ☐ [3C-like proteinase, Coronavirus \[Supplementary Concept\]](#)
4. similar to 3C proteinases of picornaviruses; MW about 35 kDa;
Date introduced: June 26, 1996
- ☐ [membrane protein, SARS-CoV-2 \[Supplementary Concept\]](#)
5. Date introduced: April 21, 2020
- ☐ [envelope protein, SARS-CoV-2 \[Supplementary Concept\]](#)
6. A short integral membrane protein
Date introduced: April 21, 2020
- ☐ [COVID-19 serotherapy \[Supplementary Concept\]](#)
7. Date introduced: March 28, 2020
- ☐ [COVID-19 vaccine \[Supplementary Concept\]](#)
8. Date introduced: March 26, 2020
- ☐ [RNA-dependent RNA polymerase, coronavirus \[Supplementary Concept\]](#)
9. Date introduced: March 25, 2020
- ☐ [nidoviral uridylyate-specific endoribonuclease \[Supplementary Concept\]](#)
10. Date introduced: March 24, 2020
- ☐ [ORF1ab polyprotein, SARS-CoV-2 \[Supplementary Concept\]](#)
11. Date introduced: April 22, 2020
- ☐ [severe acute respiratory syndrome coronavirus 2 \[Supplementary Concept\]](#)
12. term "SARS2" deleted as it sometimes refers to mitochondrial seryl-tRNA synthetase gene, SARS2
Date introduced: January 14, 2020

PubMed Search Builder

Add to search builder AND Search PubMed YouTube Tutorial

Find related data
Database: Select Find Items

Search details
"severe acute respiratory syndrome coronavirus 2"[All Fields] OR SARS-CoV-2[Text Word]
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- coronavirus infections (1) MeSH
- Coronavirus Infections MeSH
- SARS-CoV-2 (35) MeSH

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<https://www.ncbi.nlm.nih.gov/mesh/?term=SARS-CoV-2>

MeSH

MeSH

coronavirus infections

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Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

Full ▾

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Coronavirus Infections

Virus diseases caused by the CORONAVIRUS genus. Some specifics include transmissible enteritis of turkeys (ENTERITIS, TRANSMISSIBLE, OF TURKEYS); FELINE INFECTIOUS PERITONITIS; and transmissible gastroenteritis of swine (GASTROENTERITIS, TRANSMISSIBLE, OF SWINE).

Year introduced: 1994

PubMed search builder options

[Subheadings:](#)

- | | | |
|--|--|--|
| ☐ analysis | ☐ enzymology | ☐ physiology |
| ☐ anatomy and histology | ☐ epidemiology | ☐ physiopathology |
| ☐ blood | ☐ ethnology | ☐ prevention and control |
| ☐ cerebrospinal fluid | ☐ etiology | ☐ psychology |
| ☐ chemically induced | ☐ genetics | ☐ radiotherapy |
| ☐ classification | ☐ history | ☐ rehabilitation |
| ☐ complications | ☐ immunology | ☐ statistics and numerical data |
| ☐ congenital | ☐ metabolism | ☐ surgery |
| ☐ diagnosis | ☐ microbiology | ☐ therapy |
| ☐ diagnostic imaging | ☐ mortality | ☐ transmission |
| ☐ diet therapy | ☐ nursing | ☐ urine |
| ☐ drug therapy | ☐ organization and administration | ☐ veterinary |
| ☐ economics | ☐ parasitology | ☐ virology |
| ☐ embryology | ☐ pathology | |

☐ Restrict to MeSH Major Topic.

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

Tree Number(s): C01.925.782.600.550.200

MeSH Unique ID: D018352

Entry Terms:

- Coronavirus Infection
- Infection, Coronavirus
- Infections, Coronavirus
- Middle East Respiratory Syndrome
- MERS (Middle East Respiratory Syndrome)

[All MeSH Categories](#)

[Diseases Category](#)

[Infections](#)

[Virus Diseases](#)

[RNA Virus Infections](#)

[Nidovirales Infections](#)

[Coronaviridae Infections](#)

Coronavirus Infections

[Enteritis, Transmissible, of Turkeys](#)

[Feline Infectious Peritonitis](#)

[Gastroenteritis, Transmissible, of Swine](#)

[Severe Acute Respiratory Syndrome](#)

PubMed Search Builder

Add to search builder

AND ▾

Search PubMed

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

Related information

[PubMed](#)

[PubMed - Major Topic](#)

[Clinical Queries](#)

[NLM MeSH Browser](#)

[MedGen](#)

Recent Activity

[Turn Off](#) [Clear](#)

coronavirus infections (1)

MeSH

Coronavirus Infections

MeSH

SARS-CoV-2 (35)

MeSH

[See more...](#)

"coronavirus infections"[MeSH
Terms] OR coronavirus
infections[Text Word]

Search

[See more...](#)

NCBI

Resources

How To

Sign in to NCBI

MeSH

MeSH

coronavirus infections

Create alertLimitsAdvanced

Help

COVID-19 is an emerging, rapidly evolving situation.
Get the latest public health information from CDC: <https://www.coronavirus.gov>.
Get the latest research from NIH: <https://www.nih.gov/coronavirus>.
Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

Full

Send to:

Coronavirus Infections

Virus diseases caused by the CORONAVIRUS genus. Some specifics include transmissible enteritis of turkeys (ENTERITIS, TRANSMISSIBLE, OF TURKEYS); FELINE INFECTIOUS PERITONITIS; and transmissible gastroenteritis of swine (GASTROENTERITIS, TRANSMISSIBLE, OF SWINE).
Year introduced: 1994

PubMed search builder options

[Subheadings:](#)

☐ analysis	☐ enzymology	☐ physiology
☐ anatomy and histology	☐ epidemiology	☐ physiopathology
☐ blood	☐ ethnology	☐ prevention and control
☐ cerebrospinal fluid	☐ etiology	☐ psychology
☐ chemically induced	☐ genetics	☐ radiotherapy
☐ classification	☐ history	☐ rehabilitation
☐ complications	☐ immunology	☐ statistics and numerical data
☐ congenital	☐ metabolism	☐ surgery
☒ diagnosis	☐ microbiology	☐ therapy
☐ diagnostic imaging	☐ mortality	☐ transmission
☐ diet therapy	☐ nursing	☐ urine
☐ drug therapy	☐ organization and administration	☐ veterinary
☐ economics	☐ parasitology	☐ virology
☐ embryology	☐ pathology	

2

☒ Restrict to MeSH Major Topic.

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

Tree Number(s): C01.925.782.600.550.200
MeSH Unique ID: D018352
Entry Terms:

- Coronavirus Infection
- Infection, Coronavirus
- Infections, Coronavirus
- Middle East Respiratory Syndrome
- MERS (Middle East Respiratory Syndrome)

[All MeSH Categories](#)
[Diseases Category](#)

3

Add to search builder

AND

4

Search PubMed

YouTube Tutorial

PubMed Search Builder

Related information

PubMed

PubMed - Major Topic

Clinical Queries

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MedGen

Recent Activity

Turn Off Clear

coronavirus infections (1)

MeSH

Coronavirus Infections

MeSH

SARS-CoV-2 (35)

MeSH

See more...

"coronavirus infections"[MeSH Terms] OR coronavirus infections[Text Word]

<https://www.ncbi.nlm.nih.gov/mesh/?term=coronavirus+infections>

COVID-19 is an emerging, rapidly evolving situation.

Get the latest public health information from CDC: <https://www.coronavirus.gov>.

Get the latest research from NIH: <https://www.nih.gov/coronavirus>.

Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.



National Library of Medicine
National Center for Biotechnology Information

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PubMed.gov

"Coronavirus Infections/diagnosis"[Majr]



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[User Guide](#)

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Sorted by: Most recent ↓

Display options

MY NCBI FILTERS

3,541 results

RESULTS BY YEAR



TEXT AVAILABILITY

- ☐ Abstract
- ☐ Free full text
- ☐ Full text

ARTICLE ATTRIBUTE

- ☐ Associated data

ARTICLE TYPE

- ☐ Books and Documents



1

[\[Application of laboratory diagnostic technologies for SARS-CoV-2: current progress and prospect\].](#)

Cite

Xiao B, Zhou Q, Lei T, He Y, Li L.

Share

Nan Fang Yi Ke Da Xue Xue Bao. 2020 Apr 30;40(4):601-605. doi:

10.12122/j.issn.1673-4254.2020.04.24.

PMID: 32895122 Review. Chinese.



2

[Clinical characteristics of 16 patients with fecal severe acute respiratory syndrome coronavirus 2 nucleic acid-positive.](#)

Cite

Zhou Y, Xiao Z, Chen D, Guan J, Zhou Z, Zhang H, Zhou H.

Share

Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2020 May 28;45(5):560-564. doi:

10.11817/j.issn.1672-7347.2020.200230.

PMID: 32879107 **Free article.** Chinese, English.



3

[Clinical characteristics of coronavirus disease 2019 patients complicated with liver injury.](#)

Cite

Wen M, Lu J, Xie Y.

Share

Zhong Nan Da Xue Xue Bao Yi Xue Ban. 2020 May 28;45(5):555-559. doi:

10.11817/j.issn.1672-7347.2020.200225.

PMID: 32879106 **Free article.** Chinese, English.

Feedback

MeSH on Demand

 U.S. National Library of Medicine

 Search Tree View MeSH on Demand MeSH 2021 MeSH Suggestions About MeSH Browser Contact Us



MeSH on Demand identifies MeSH® terms in your submitted text (abstract or manuscript). MeSH on Demand also lists PubMed similar articles relevant to your submitted text.

Search

Reset

Help/FAQ

Features

The emergence of the [betacoronavirus severe acute respiratory syndrome coronavirus 2 SARS CoV 2](#) the causative agent of [coronavirus disease 2019 COVID 19](#) represents a considerable threat to global [human](#) health Vaccine [development](#) is focused on the principal target of the [humoral immune response](#) the spike S [glycoprotein](#) which mediates [cell entry](#) and [membrane fusion](#) The [SARS CoV 2](#) S gene encodes 22 N linked [glycan](#) sequons per [protomer](#) which likely play a role in [protein folding](#) and [immune evasion](#) Here using a site specific mass spectrometric approach we reveal the glycan structures on a recombinant [SARS CoV 2](#) S immunogen This analysis enables mapping of the glycan processing states across the trimeric viral spike We show how [SARS CoV 2](#) S [glycans](#) differ from typical host glycan processing which may have implications in viral pathobiology and vaccine design

Start PubMed Search

Export Data

MeSH Terms

-  [Humans](#)
-  [COVID-19](#)
-  [severe acute respiratory syndrome coronavirus 2](#)
-  [Coronavirus](#)
-  [Protein Subunits](#)
-  [Membrane Fusion](#)
-  [Immune Evasion](#)
-  [Immunity, Humoral](#)
-  [Virus Internalization](#)
-  [Coronavirus Infections](#)
-  [Betacoronavirus](#)
-  [Glycoproteins](#)
-  [Protein Folding](#)
-  [Polysaccharides](#)

PubMed/MEDLINE Similar Articles

The following articles are 10 similar PubMed Related Citations that were also used in computing these MeSH recommendations. The order is from most to least relevant. Selecting any of the titles opens a new window or tab with that related citation in PubMed's Abstract view.

1. Synthetic peptide studies on the severe acute respiratory syndrome (SARS) coronavirus spike glycoprotein: perspective for SARS vaccine development. PMID: [15044316](#)
2. Anti-severe acute respiratory syndrome coronavirus spike antibodies trigger infection of human immune cells via a pH- and cysteine protease-independent FcγR pathway. PMID: [21775467](#)
3. Endocytosis of the receptor-binding domain of SARS-CoV spike protein together with virus receptor ACE2. PMID: [18554741](#)
4. Adenoviral expression of a truncated S1 subunit of SARS-CoV spike protein results in specific humoral immune responses against SARS-CoV in rats. PMID: [16022898](#)
5. Characterization of severe acute respiratory syndrome-associated coronavirus (SARS-CoV) spike glycoprotein-mediated viral entry. PMID: [15010527](#)
6. Stabilized coronavirus spikes are resistant to conformational changes induced by receptor recognition or proteolysis. PMID: [30356097](#)
7. Inhibitors of cathepsin L prevent severe acute respiratory syndrome coronavirus entry. PMID: [16081529](#)
8. A single immunization with a rhabdovirus-based vector expressing severe acute respiratory syndrome coronavirus (SARS-CoV) S protein results in the production of high levels of SARS-CoV-neutralizing antibodies. PMID: [15831955](#)
9. Surface vimentin is critical for the cell entry of SARS-CoV. PMID: [26801988](#)
10. Inhibition of endoplasmic reticulum-resident glucosidases impairs severe acute respiratory syndrome coronavirus and human coronavirus NL63 spike protein-mediated entry by altering the glycan processing of angiotensin I-converting enzyme 2. PMID: [25348530](#)

<https://meshb.nlm.nih.gov/MeSHonDemand>

Europe PMC

The screenshot displays the Europe PMC website interface. At the top, there is a navigation bar with the Europe PMC logo and links for 'About', 'Tools', 'Developers', 'Help', and 'Europe PMC plus'. A 'Sign in or create an account' link is also present. Below the navigation bar is a search bar with the text 'SARS-CoV-2' and a 'Search' button. To the right of the search bar is a link to 'Advanced Search'. Below the search bar, there are links for 'Recent history' and 'Saved searches'. The main content area shows search results for 'SARS-CoV-2'. On the left, there are filters for 'Type' (Research articles, Reviews, Preprints), 'Free full text' (Free to read, Free to read & use), and 'Date' (2020, 2019, 2018). The search results are sorted by 'Date received' and show 1-25 of 46,094 results. The first result is titled 'Clinical characteristics of patients hospitalized with COVID-19 in Spain: results from the SEMI-COVID-19 Registry' and includes a list of authors and a 'Free to read & use' button. The second result is titled 'Sonographische Bildgebung der Lunge bei COVID-19 Lung ultrasonography in COVID-19 pneumonia' and includes a list of authors and a 'Free to read & use' button.

Sign in or create an account

Europe PMC

About Tools Developers Help Europe PMC plus

Search worldwide, life-sciences literature

SARS-CoV-2 Search Advanced Search

Coronavirus articles and preprints Search examples: "breast cancer" Smith J

Recent history Saved searches

Search only

Type ?

- ☐ Research articles (31,692)
- ☐ Reviews (7,241)
- ☐ Preprints (7,143)

Free full text ?

- ☐ Free to read (35,402)
- ☐ Free to read & use (33,505)

Date

- ☐ 2020 (38,077)
- ☐ 2019 (622)
- ☐ 2018 (536)

Custom date range ▶

1-25 of 46,094 results

Sort by: Date received

1 2 3 4 5 Next ...

Save search

Export citations

Clinical characteristics of patients hospitalized with COVID-19 in Spain: results from the SEMI-COVID-19 Registry ☆ Características clínicas de los pacientes hospitalizados con COVID-19 en España: resultados del Registro SEMI-COVID-19

Casas-Rojo J, Antón-Santos J, Millán-Núñez-Cortés J, Lumbreras-Bermejo C, Ramos-Rincón J, Roy-Vallejo E, Artero-Mora A, Arnalich-Fernández F, García-Bruñén J, Vargas-Núñez J, Freire-Castro S, Manzano-Espinosa L, Perales-Fraile I, Crestelo-Viéitez A, Puchades-Gimeno F, Rodilla-Sala E, Solís-Marquín M, Bonet-Tur D, Fidalgo-Moreno M, [...] Network.

Rev Clin Esp (Barc), 09 Sep 2020

SEMI) to improve the quality of treatment for SARS-CoV-2. The main objective of the registry is to generate... severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in the world. Since the first COVID-19 case

Cited by: 0 articles | PMID: PMC7480740

+ Add to export list

Free to read & use

Sonographische Bildgebung der Lunge bei COVID-19 Lung ultrasonography in COVID-19 pneumonia

Schmid M, Escher F, Clevert D

Radiologe, 1-8, 09 Sep 2020

und Muskelschmerzen (7 %) [2]. Schwere Verläufe einer Infektion mit SARS-CoV-2 gehen mit Pneumonien einher... angegebenen ethischen Richtlinien.

<https://europepmc.org/>

Access more content

We have over 5 million more abstracts than PubMed.

Europe PMC also contains Patents, NHS (National Health Service) guidelines, and Agricola records.

[COVID-19 preprints initiative: find out more →](#)

Patents
4.2 million

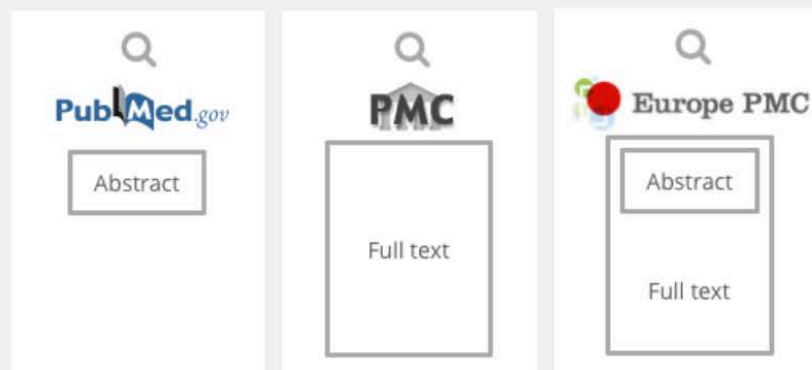
**Agricola
records**
778,052

Abstracts
37.5 million, 31.5
million from PubMed

**NHS
guidelines**
1,338

Preprints
181,283

**Full text
articles**
6.3 million



Search abstracts and full text in a single search

On Europe PMC you can search all the content (abstracts and article full text) **in a single search**, whereas PubMed and PMC are separate resources.

Sort by 'times cited' to get straight to highly cited articles.

<https://beta.europepmc.org/About>

キーワードが注釈付けされる

The screenshot shows the Europe PMC website interface. At the top, there's a navigation bar with links: About, Tools, Developers, Help, and Europe PMC plus. Below this is a search bar with the text 'SARS-CoV-2' and a search button. A sidebar on the right contains 'SciLite annotations' (with a note about licensing), 'Gene Ontology' (listing terms like translation, host cells, synthesis, etc.), 'Genes/Proteins' (listing SARS, protein S, hemoglobin, etc.), and 'Diseases'. The main content area displays the article title 'SARS-CoV-2 and miRNA-like inhibition power' by Demongeot J¹, Seligmann H². It includes author information, publication details (Medical Hypotheses, 04 Sep 2020, 144:110245-110245), and a 'Free to read & use' button. The abstract is partially visible, starting with '(1) Background: RNA viruses and especially coronaviruses could act inside host cells not only by building their own proteins, but also by perturbing the cell metabolism.'

<https://europepmc.org/article/PMC/PMC7471724>

随時更新、オープン、フリー



文献で使われる略語を検索



文献で使われる英語表現を検索



引用情報の検索

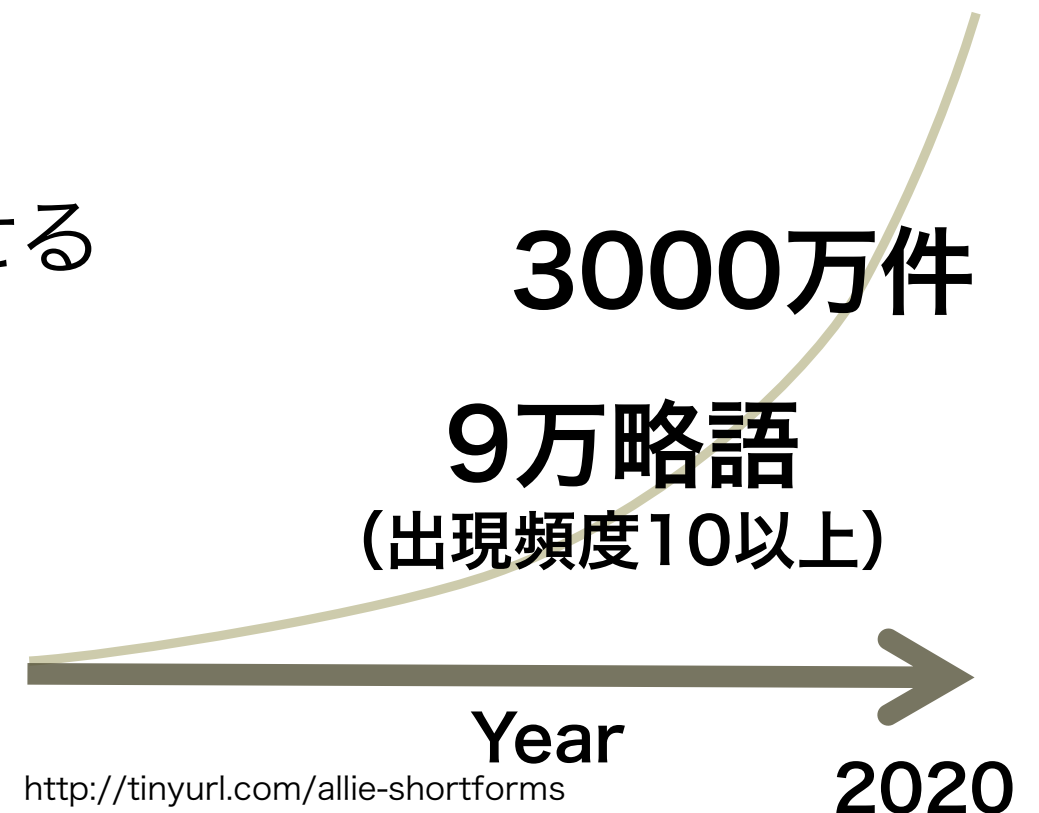
Allie (アリー)



<https://allie.dbcls.jp/>

生命科学分野の文献中には 略語が多い

- 研究者により自由に略語が生み出されている
発表文献数は増加中 (PubMedには2000報以上追加/日)
- 多くの多義語・類義語が存在
- 読み手に誤解と混乱を生じさせる



生命科学系の略語を簡単に調 べる方法はないか？



最新の略語と出典を含めて



Allieがお手伝いします!

Allie

- 日本語訳があれば提示

reactive oxygen species / 活性酸素種, 反応性酸素生成物

- よく使われる分野を提示、絞り込みも可能

Biochemistry / 生化学, 生物化学

- 出現文献情報を提示

ROS - (1980) Evidence for both oxygen and non-oxygen dependent mechanisms of antibody sensitized target cell lysis by human monocytes.

- 同じ文献で使われている他の略語 (共起略語) も提示

ROS -SOD, NO, NAC, ...

Allie A Search Service for Abbreviation / Long Form

■ 検索結果 - 略語 : SPF

検索条件:

検索語: **SPF**

検索方法: **完全一致**

主な研究分野:

(Any)

獣医学

新生物, 腫瘍

皮膚科学

生化学, 生物化学

耳鼻咽喉科, 耳鼻科, 耳鼻咽喉科学, 耳鼻科学

眼科学

結果:

略語: **SPF**

出現頻度: **2873**

対応する展開形の数: **202**

表示設定:

[件数]

☒ 展開形100件(出現頻度降順)

☐ 展開形全件

[1ページの件数]

20

ページ移動

◀ ▶ 🔍

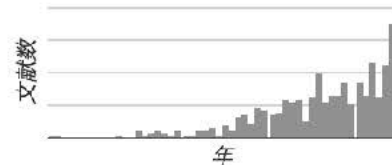
1 / 5 ページ

展開形 No.	展開形	主な研究分野	共起略語	PubMed/MEDLINE情報 (発表年, 題目)
1	specific pathogen-free 特定病原体除去 (1514 回)	Veterinary Medicine 獣医学 (630 回)	GF (132 回) IBDV (58 回) NDV (58 回)	1961 Swine repopulation. IV. Influence of management upon the growth of specific pathogen-free (SPF) pigs.
2	S-phase fraction (491 回)	Neoplasms 新生物, 腫瘍 (276 回)	FCM (54 回) DI (38 回) PI (28 回)	1978 Subpopulations of breast carcinoma defined by S-phase fraction, morphology, and estrogen receptor content.
3	sun protection factor 日焼け止め指数, 紫外線防御指数 (440 回)	Dermatology 皮膚科学 (209 回)	UV (85 回) UVR (29 回) MED (19 回)	1968 Passive transfer of acquired resistance in mice to group B Arboviruses by serum protective factor(s) (SPF) independent of serum neutralizing antibody or interferon.
4	Supernatant protein factor (21 回)	Biochemistry 生化学, 生物化学 (14 回)	alpha-TTP (4 回) CRALBP (2 回) PG (2 回)	1977 Purification and properties of a soluble protein activator of rat liver squalene epoxidase.
5	synthetic phase fraction (18 回)	Biochemistry 生化学, 生物化学 (5 回)	PI (4 回) PCNA (3 回) EGFR (2 回)	1991 Multiparametric evaluation of flow cytometric synthesis phase fraction determination in dual-labelled breast carcinomas.
6	sphenopalatine foramen (15 回)	Otolaryngology 耳鼻咽喉科, 耳鼻科, 耳鼻咽喉	FR (3 回) PPF (3 回) CT (2 回)	1998 Osteologic classification of the sphenopalatine foramen.

Allie A Search Service for Abbreviation / Long Form

■ 略語／展開語 : SPF / sun protection factor

[関連PubMed/MEDLINE情報]

合計出現文献数: **435**

[表示件数]

☒ 100 件 (発表年降順)

☐ 100 件 (発表年昇順)
[>> 全件](#)

[1ページの表示件数]

20

ページ移動



1 / 5 ページ

略語: **SPF** ([>> 共起略語](#))展開形: **sun protection factor**

日焼け止め指数, 紫外線防御指数

DBpediaへのリンク

LSD RDFへのリンク

略語バリエーション

展開形バリエーション

ペア(略語／展開形)バリエーション

No.	発表年	題目	共起略語
1	2019	A series of in vitro and human studies of a novel lip cream formulation for protecting against environmental triggers of recurrent herpes labialis.	RHL, TEWL, UVA
2	2019	Another Reason for Using Caffeine in Dermocosmetics: Sunscreen Adjuvant.	UV
3	2019	Anti-inflammatory / anti-oxidant activity of ingredients of sunscreen products? Implications for SPF.	AI/AO
4	2019	Antioxidant, UV Protection, and Antiphotaging Properties of Anthocyanin-Pigmented Lipstick Formulations.	ACNs, DPPH, UV
5	2019	Application of SPF moisturisers is inferior to sunscreens in coverage of facial and eyelid regions.	---
6	2019	Bismuth titanate-based UV filters embedded mesoporous silica nanoparticles: Role of bismuth concentration in the self-sealing process.	MSN, UV
7	2019	Characterization of a nontoxic pyomelanin pigment produced by the yeast <i>Yarrowia lipolytica</i> .	DPPH
8	2019	Chemical Characterization and Biotechnological Applicability of Pigments Isolated from Antarctic Bacteria.	---
9	2019	Compositional and morphological analyses of wax in northern wild berry species.	GC-MS, SEM, SFE
10	2019	Cosmeceutical potential of geranium and calendula essential oil: Determination	CEO, CEO, DPPH

計算機を用いて自動的に抽出

> Nature 2019 Oct 21[Online ahead of print]

Search-and-replace Genome Editing Without Double-Strand Breaks or Donor DNA

Andrew V Anzalone, Peyton B Randolph ... David R Liu + expand

PMID: 31634902 DOI: [10.1038/s41586-019-1711-4](https://doi.org/10.1038/s41586-019-1711-4)

prime editing RNA - pegRNA

Abstract

Most genetic variants that contribute to disease are challenging to correct efficiently and without excess byproducts²⁻⁵. Here we describe prime editing, a versatile and precise genome editing method that directly writes new genetic information into a specified DNA site using a catalytically impaired Cas9 endonuclease fused to an engineered reverse transcriptase, programmed with a **prime editing guide RNA (pegRNA)** that both specifies the target site and encodes the desired edit. We performed more than 175 edits in human cells, including targeted insertions, deletions, and all 12 types of point mutation, without requiring double-strand breaks or donor DNA templates. We used prime editing in human cells to correct, efficiently and with few byproducts, the primary genetic causes of sickle cell disease (requiring a transversion in HBB) and Tay-Sachs disease (requiring a deletion in HEXA); to install a protective transversion in PRNP; and to insert various tags and epitopes precisely into target loci. Four human cell lines and primary post-mitotic mouse cortical neurons support prime editing with varying efficiencies. Prime editing shows higher or similar efficiency and fewer byproducts than homology-directed repair, has complementary strengths and weaknesses compared to base editing, and induces much lower off-target editing than Cas9 nuclease at known Cas9 off-target sites. Prime editing substantially expands the scope and capabilities of genome editing, and in principle could correct up to 89% of known genetic variants associated with human diseases.

約3000万件

reactive oxygen species
ROS

high-performance liquid chromatography
FTIR

superoxide dismutase
SOD



PubMedに含まれる全文献情報を対象に抽出

約2480万ペア
(unique: 419万)

<http://tinyurl.com/allie-paircount>

<http://tinyurl.com/allie-paircount-unique>

発展的な利用

- ftpでデータベースのダウンロードが無料で可能
 - 毎週更新
 - <ftp://ftp.dbcls.jp/allie>
- APIにより利用者の開発したプログラムから検索可能
 - SOAP / REST / SPARQL
 - <http://data.allie.dbcls.jp/>

Allie A Search Service for Abbreviation / Long Form

■ 略語／展開形の検索

[Allie RDF Data Portal](#) | [SOAP/REST APIについて](#) | [English](#)

[検索語] (略語、展開形、もしくはそれらの一部)

検索

リセット

[\[ヘルプ\]](#) [\[略語一覧\]](#)

"SPF"で試す

検索オプション

Allieとは？

Allie(アリー)は生命科学分野において利用されている略語とその展開形を検索するサービスです。文献中に多く出現する略語は多義語であることが多く、特に専門外の読者には理解するのに困難を伴うことがあります。Allieはこの問題に対する一つの解となるよう開発されています。Allieは米国国立保健図書館(National Library of Medicine, NLM)の生物医学分野における書誌情報データベースであるPubMed®に含まれる全ての題目と要旨を対象として略語とその展開形を検索し

https://allie.dbcls.jp/

略語のアリー

検索

動画チュートリアル

Allieの使い方を動画で解説しています。[こちら](#)をご覧ください。

新着情報ブログ

データを更新した際に追加された略語などについての情報を[こちら](#)にアップしています。

関連文献

Allieの詳細については下記の文献を参照してください。:

Y. Yamamoto, A. Yamaguchi, H. Bono and T. Takagi, "Allie: a database and a search service of abbreviations and long forms.", Database, 2011:bar03.

[PubMed Entry](#) | [Full text paper available](#)

また、AllieはALICEという、PubMedデータから略語とその展開形の組を抽出するツールを利用しています。詳細は下記の文献を参照してください。:

H. Ao and T. Takagi, "ALICE: an algorithm to extract abbreviations from MEDLINE.", J Am Med Inform Assoc., 2005 Sep-Oct;12(5):576-86.

[PubMed Entry](#) | [Full text paper available](#)

更新

動画チュートリアル(統合TV)

2017-10-25 Allieを使って略語の正式名称を検索する 2017



▶ YouTube版を視聴できない方はオリジナル版ファイル(mov形式)をダウンロードして、ご覧ください。

Allie (「アリー」と発音します) は、ライフサイエンス統合データベースセンター(DBCLS)が提供するサービスのひとつで、PubMed/MEDLINE(医学生物系文献書誌情報データベース)に収載されている文献中に出現する略語とその正式名称の組およびその付随情報を検索するシステムです。

生命科学系の文献では非常に多くの略語が使われており、同じ表記でも全く違う意味を示していることが少なくありません。Allieでは、利用者の興味のある略語を検索語として入力することで、その使われ方をPubMed/MEDLINE中によく現れる順で一覧表示すると共に、その略語が使われた文献の発表年を提示しています。また、検索された各略語について、その意味で使われている文献中で共起する他の略語も同時に検索されることが特徴です。日本語の対訳がある正式名称についてはそれらを併せて表示したり、検索結果の略語もしくは正式名称についてそれらが出現する文献情報を取得することもできます。さらに、略語と正式名称の組とそれらが出現する文献のPubMed IDを収めたデータベースをタブ区切り形式等で自由にダウンロードできます。

▶ 見どころダイジェスト

1. Allieのトップページから「IPS」の正式名称を調べる (0:41)
2. 「IPS」と共起する略語を調べる (2:17)
3. 「IPS」という略語がいつ頃からどの論文で出現するのかを調べる (2:48)
4. 完全一致と部分一致の違いなどのオプション設定方法 (3:51)
5. 略語を検索する (5:24)

Allieデータベースへの SPARQL検索結果例

研究分野がVirologyである文献中に出現する略語

頻度	略語	展開形	対訳
16202	HIV-1	human immunodeficiency virus type 1	ヒト免疫不全ウイルス1型
7736	RT	reverse transcriptase	逆転写酵素
7583	RSV	respiratory syncytial virus	(呼吸器に感染するニューモウイルス) RSウイルス, 呼吸器合胞体ウイルス, 呼吸器多核体ウイルス
7485	HSV	herpes simplex virus	単純ヘルペスウイルス, 単純疱疹ウイルス
6748	HSV-1	herpes simplex virus type 1	単純ヘルペスウイルス1型
6181	HA	hemagglutinin	ヘマグルチニン, 血球凝集素, 赤血球凝集素
5346	HCMV	human cytomegalovirus	ヒトサイトメガロウイルス
5136	ORFs	open reading frames	(DNA上でタンパク質をコードする範囲) 翻訳領域, オープンリーディングフレーム, 読み取り枠, 読み枠
4272	VZV	varicella-zoster virus	水痘・带状疱疹ウイルス, 水痘带状疱疹ウイルス
3448	WNV	West Nile virus	(蚊が媒介して脳炎や感冒様症状を起こす病原ウイルス) ウエストナイルウイルス, West Nileウイルス, 西ナイルウイルス

<https://tinyurl.com/UniProt-Allie-APP>

Alie

<https://tinyurl.com/Allie-APP>

SPARQL Query created by @jervenbolleman

inMeXes (インメクセズ)

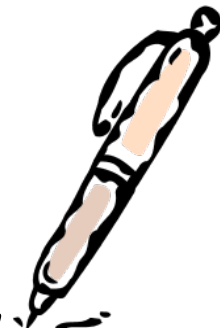


<https://docman.dbcls.jp/im/>

英作文中に出くわす悩み

- is associated に続く前置詞は何だったっけ？
- リン酸化に対応する英単語、phosの続きは？
- associated with を修飾する副詞、文献でよく使われているものは？
- thermodynamic parameters には the が付くことが多い？
付いている場合の実際の文章は？
- unknownと同じような使われ方をするほかの単語は？



is associated ... 



inMeXesがお手伝いします!

inMeXes

- 高速

PubMedに含まれる全ての題目、要旨中の表現を高速に検索

- 軽快

3文字以上入力すると、キーを叩く毎に検索結果を表示

- 便利

結果は頻度順、気になる表現をクリックすると関連情報を表示

関連情報例: PubMedアブストラクト中の表現

PMID	Location	Line	Sentence
14862	Abstract	5	The fall in serum calcium ion concentration was highly correlated with the rise in serum pH.
49375	Abstract	4	Body temperature was found to decline with advancing age and was highly correlated with thyroid function.
65917	Abstract	12	For all samples the amount of lipoprotein released was highly correlated with the accumulation of deposited cholesterol, suggesting that immobilization of LDL may be an intermediate step in the irreversible deposition of extracellular cholesterol.
67021	Abstract	10	It was primarily due to changes in the amplitude of late VEP components (240--400 msec after the evoking stimulus) and was highly correlated with the percentage time the infants fixated the various check sizes.
100173	Abstract	3	Secondly, if a visual stimulus sometimes elicited a saccade and sometimes failed to elicit a saccade, the occurrence of the spike pulse was highly correlated with saccade occurrence.
133356	Abstract	7	(2) Direct stimulants of DA receptors should enhance self-stimulation of NA sites by augmenting dopaminergic motivational activity; but in rats with DA electrodes, noncontingent stimulation of DA receptors would also impose similar noncontingent activity on the transsynaptic noradrenergic reinforcement pathways and thus depress self-stimulation; this was confirmed by the finding that apomorphine (0.3-1.0 mg/kg) was strongly stimulant for NA electrodes but strongly depressant for DA electrodes, and that the degree and direction of these effects was highly correlated with the differential effects of d- l-amphetamine ($r = .65$, p less than 0.01).
135383	Abstract	3	Stimulation by pools of 20 cells was highly correlated with the general "responsiveness" of responding cells as measured by their mean response to a large panel of stimulating cells.
138358	Abstract	3	The maximum of Vf, the summated vector (Vf), was highly correlated with VS1+R6 ($r=0.84$).
147530	Abstract	2	MLC blocking particularly in the unidirectional culture against donor-stimulating cells, was highly correlated with the presence of complement-dependent cytotoxicity antibodies against donor B lymphocytes.
150082	Abstract	2	Unidirectional MLC blocking was highly correlated with a positive B-cell crossmatch.
169242	Abstract	2	The in vitro nuclear binding of all the analogues tested was highly correlated with their published thyromimetic potencies in the intact animals.
191473	Abstract	10	The rate of rise of plasma 25-OHD level was highly correlated with the dose used.
191551	Abstract	6	In these animals, plasma cholesterol concentration ranged from 100 to over 700 mg/dl and was highly correlated with LDL molecular weight and with the micromolar concentration of the LDL.
203920	Abstract	5	The calcium binding activity of these samples was approximately 0.9% per mg. protein and was highly correlated with CaBP concentration ($r=0.94$).
210440	Abstract	6	Total cholesterol was highly correlated with both beta- and alpha-lipoproteins; triglycerides were correlated with pre-beta-lipoproteins but inversely with alpha-lipoproteins.
218807	Abstract	5	In individual rats, the magnitude of the decrease in nuclear T3 receptor concentration was highly correlated with the decrease in tumor-free body weight.
234690	Abstract	7	However, the medial thickness of the small pulmonary arteries in control animals was highly correlated with the development of pulmonary hypertension and right ventricular hypertrophy in hypoxic animals.
268642	Abstract	3	The relative activity of these anionic dyes was highly correlated with their lipid solubility.
319288	Abstract	6	The frequency of recovery of E. coli was increased in fatal cases, and mortality was highly correlated with the presence of gastrointestinal catastrophe.
365649	Abstract	5	Post LHRH gonadotropins response was in the normal range for all groups and the amplitude of the response was highly correlated with basal levels except for LH in ND.

同様の使われ方をする単語を調べる

例: unknownと同じ様に使われているほかの単語を調べる

unknown	を含む	表現を検索。	フィルタを表示
最大結果表示件数:	20	検索結果のリンク先:	LSD共起リスト, Permalink(?)
マッチ	関連語		
距離	語	リンク	
0.93	undefined	inMeXes	
0.92	unclear	inMeXes	
0.9	uncertain	inMeXes	
0.85	elusive	inMeXes	
0.85	unexplored	inMeXes	
0.83	unresolved	inMeXes	
0.83	controversial	inMeXes	
0.82	obscure	inMeXes	
0.81	debated	inMeXes	
0.8	unrecognized	inMeXes	
0.79	enigmatic	inMeXes	
0.78	debatable	inMeXes	
0.77	disputed	inMeXes	
0.76	undetected	inMeXes	
0.74	underappreciated	inMeXes	
0.74	unrecognised	inMeXes	
0.73	understood	inMeXes	
0.73	unappreciated	inMeXes	
0.73	questionable	inMeXes	
0.72	uncommon	inMeXes	

やや高度な使い方: 正規表現フィルタ

correlated with

正規表現フィルタ(?): [正規表現について](#)

例: was _ correlated withの_にはどのような表現があるかを知りたい場合、最初の検索ボックスにcorrelated withを入力し、「で終わる」表現を検索とします。そして正規表現フィルタで^was と入力し(wasの次に半角スペース), 「に絞る」を指定します。(結果)

最大結果表示件数:

マッチ 頻度	関連語 表現	関連研究分野
50045	was correlated with	Neoplasms / Neurology / Medicine
23789	was positively correlated with	Medicine / Neoplasms / Neurology
21506	was significantly correlated with	Neoplasms / Neurology / Medicine
13694	was negatively correlated with	Medicine / Neurology / Endocrinology
9183	was not correlated with	Neoplasms / Neurology / Medicine
7380	was inversely correlated with	Neoplasms / Medicine / Endocrinology
4294	was highly correlated with	Neurology / Physiology / Neoplasms
3853	was strongly correlated with	Neoplasms / Neurology / Medicine
2045	was closely correlated with	Neoplasms / Biochemistry / Medicine
2007	was not significantly correlated with	Neoplasms / Medicine / Neurology
1905	was also correlated with	Neoplasms / Neurology / Medicine
1738	was well correlated with	Neoplasms / Biochemistry / Pharmacology
1398	was directly correlated with	Neoplasms / Biochemistry / Vascular Diseases
1014	was significantly positively correlated with	Environmental Health / Medicine / Psychiatry
956	was found to be correlated with	Neoplasms / Biochemistry / Neurology
763	was significantly negatively correlated with	Environmental Health / Medicine / Neurology
642	was moderately correlated with	Neurology / Psychiatry / Psychology
602	was linearly correlated with	Physiology / Biochemistry / Pharmacology
586	was also significantly correlated with	Neoplasms / Neurology / Medicine
574	was also positively correlated with	Medicine / Neoplasms / Neurology

発展的な利用

- API (JSONP) による検索が可能
 - ご自身のブログやホームページに検索サービスを埋め込みます
 - API Keyなどの認証は不要
 - 詳細は <https://docman.dbcls.jp/im/api.html>

逐次PubMed表現検索 inMeXes

3文字以上入力すると検索が始まります。

(大文字小文字は区別されます。ハイフンとスラッシュは結果に空白として表示されます。入力された情報は暗号化されて送信されます。)

▶ [inMeXesとは?](#)

こちらでinMeXesの使い方を動画で紹介しています。

is associ	を含む	表現を検索。	フィルタを表示
最大結果表示件数: 20	検索結果のリンク先: LSD共起リスト	Permalink(?)	
マッチ	関連語		
頻度	表現	関連研究分野	
518418	is associated	Medicine / Neoplasms / Neurology	

https://docman.dbcls.jp/im/

インメクセズ

検索

14215	which is associated	Medicine / Biochemistry / Neoplasms
13890	which is associated with	Medicine / Biochemistry / Neoplasms
12135	This association	Medicine / Neoplasms / Neurology
10775	that is associated	Medicine / Neurology / Biochemistry
10573	that is associated with	Medicine / Neurology / Biochemistry
10547	is associated with an increased risk	Medicine / Cardiology / Neoplasms
9097	is associated with an increased risk of	Medicine / Cardiology / Neoplasms
8828	is associated with poor	Neoplasms / Medicine / Cardiology
8731	it is associated	Medicine / General Surgery / Neoplasms
8309	it is associated with	Medicine / General Surgery / Cardiology

inMeXes はDBCLSにより提供されています。ご利用に際してサイトポリシーをご覧ください。

『英辞郎 on the WEB』とは、EDP制作の英和・和英データベース（英辞郎）をウェブブラウザ経由で利用できるサービスです。

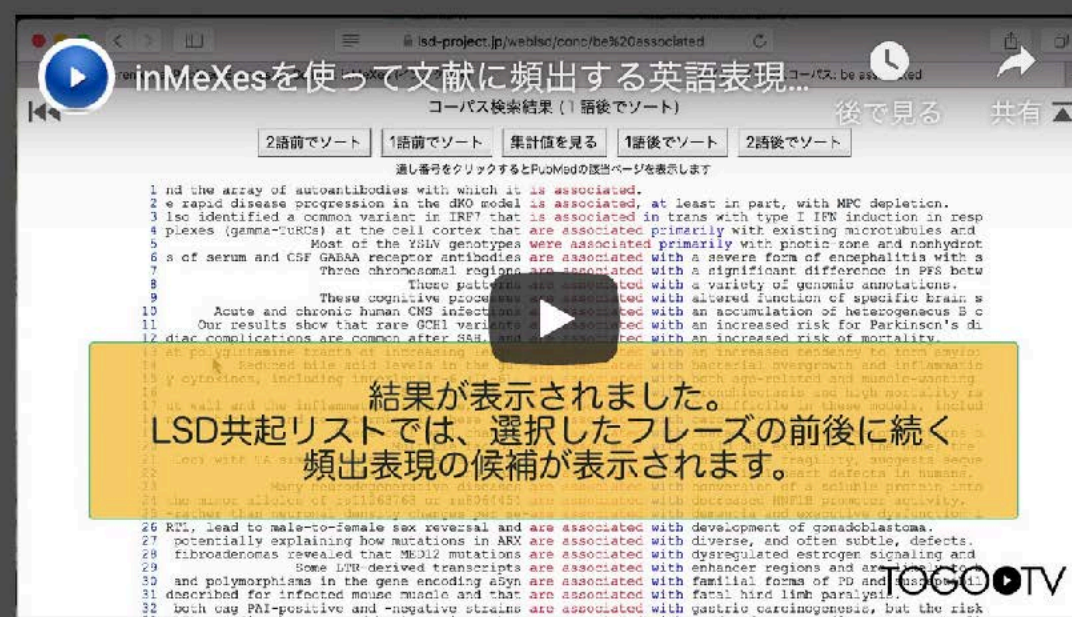
※「英辞郎」は道端早知子氏の登録商標です。

ご意見等ございましたらこちらまでお寄せください。



動画チュートリアル(統合TV)

2018-01-26 inMeXesを使って文献に頻出する英語表現や関連語を高速に検索する 2018



YouTube版を視聴できない方はオリジナル版ファイル(mov形式)をダウンロードして、ご覧ください。

inMeXes(インメクセズと読みます)は、DBCLSが提供するサービスの一つで、生命科学系の文献(PubMedに含まれるタイトルとアブストラクト)に頻出する英語表現を、1文字の入力ごとに高速に再検索することができます。また、検索結果から用例や関連情報を容易に取得することができます。3文字以上の入力で、生命科学系の文献で実際に用いられている表現をPubMedデータベースにおける頻度順に表示します。1文字の入力を追加することに逐次的に文字列にマッチする表現を検索し直すので、目的とする表現をみつけやすくなっています。用例は、「ライフサイエンス辞書プロジェクト(京都大学)」が提供している共起表現リストや、「生命科学データベース横断検索(NBDC)」の文献・データベースリストなどで確認できます。一度検索した表現の用例は、結果を再現しやすくするためにURL(Permalink)を動的に生成することができるので、検索結果のブックマークや共有に便利です。最近追加された機能として、検索した語と同様にPubMed内で出現する単語を確認することができるようになりました。名詞のほか、副詞など入力すると参考になる候補を表示することができます。

▶▶ 見どころダイジェスト

1. inMeXesのトップページから表現検索を始める (0:31)
2. フィルターの使い方 (1:40)
3. 検索結果の用例や関連情報を取得する (2:10)
4. 検索した語と同様にPubMed内で出現する単語を確認する (4:31)
5. Permalinkの使い方 (5:47)

Colil (コリル)

A stylized, handwritten-style logo for 'Colil' in a dark blue color. The letters are rounded and connected, with a slight shadow underneath.

<http://colil.dbcls.jp/>

ある文献に関する第三者からの視点

- ある文献について、当該文献の著者ではない研究者による評価はどうだろうか？
- ある文献について、共によく引用されている文献はあるだろうか？
- 引用したい文献について、特に英語での適切な記述例はないだろうか？



Colilがお手伝いします!

Colil

(Comments on literature in literature)

- 特定の論文について、その引用記述を検索します
- 特定の論文について、他の論文から共に引用されている論文を表示します
- 引用記述抽出対象はPMIDを持つPMC OA (Open Access) サブセットです (約245万件、PubMed全体の8.2%程、PMC OAサブセット全体の約85%)
- 約1185万件のPMID付き文献がPMC OAサブセットから引用されています (PubMed全体の1/3強)
- 現バージョンは2020年8月時点取得時のものです

引用される論文A

論文Aの関連論文群

Colilは論文Aの
PubMed IDを入力と
して関連論文や引用文
を出力する

論文Aを引用する論文
から引用される論文群

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TogoTV / CC-BY-4.0



論文Aを引用する関連論文群

PubMed IDかPubMed検索語を入力

DBCLS Research Services Contact About

Colil by DBCLS (最終更新日: 2019年10月10日) ヘルプ Colil RDF Data Portal

被引用論文を指定
PubMed IDを直接入力するか、PubMed検索の結果を利用して指定できます。

PubMed IDを入力
23193287
「23193287」で試す

OR

キーワードを入力 (PubMed検索)
PubMedの検索オプションを利用することができます。
1995:2000[dp] "Cell" [jour]
Keywords here
「IPS 2006:2008[dp] "Cell" [jour]」
で試す

入力後、エンターキーまたは"Search"ボタンを押してください。

Authors' Comment What do other papers say about a paper?

GenBank
K, Karsch-Mizrachi I, Lipman DJ, Ostell J, Sayers EW Nucleic Acids Res. 2013 Jan;41(Database issue):D36-42.

the following papers.

件数, 1 / 30ページ 次へ → 並び替え year

SPARQLクエリを表示

31003499
9
PubMed
PMC
Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community.
Pinu FR, Beale DJ, Paten AM, Kouremenos K, Swarup S, Schirra HJ, Wishart D Metabolites. 2019 Apr 18;9(4):.
multi-omics data integration In addition to these species-specific resources, there are also general multi-species resources on genes and proteins, such as GenBank and UniProt [103,104], multi-species collections on metabolites, such as ChEBI [105], and MetaboLights [106], multi-species collections on lipids, such as Lipid Maps [107], multi-species collections on proteomics or protein expression data, such as PRIDE

30809427
0
PubMed
PMC
Pollen metabarcoding reveals broad and species-specific resource use by urban bees.
Potter C, de Vere N, Jones LE, Ford CR, Hegarty MJ, Hodder KH, Diaz A, Franklin EL PeerJ. 2019;7:e5999.
methods was used to search unique sequences against a custom BLAST database which consisted of all sequences from the Barcode Wales project (De Vere et al., 2012) alongside selected other sequences downloaded from GenBank (Benson et al., 2012). Results were manually filtered to remove plants that do not occur in the UK, based on Stace (2010), and Cubey & Merrick (2014).

30828338
0
PubMed
PMC
Genome-Wide Associations of Chlorophyll Fluorescence OJIP Transient Parameters Connected With Soil Drought Response in Barley.
Rapacz M, Wojcik-Jagla M, Fiust A, Kalaji HM, Koscielniak J Front Plant Sci. 2019;10:78.
materials and methods gov/genbank/ (Benson et al., 2012). The identification of potential genes in the sequence of the barley genome was conducted by the ViroBLAST server at http:

30289528
IMG/M v.5.0: an integrated data management and comparative analysis system for microbial genomes and microbiomes.

関連論文
SPARQLクエリを表示

80 Basic local alignment search tool.
PubMed

42 Gapped BLAST and PSI-BLAST: a new generation of protein database search programs.
PubMed

41 MUSCLE: multiple sequence alignment with high accuracy and

<http://colil.dbcls.jp/browse/papers/23193287/1/20/year>

被引用論文を指定

PubMed IDを直接入力するか、PubMed検索の結果を利用することで指定できます。

PubMed IDを入力

OR

キーワードを入力 (PubMed検索)

PubMedの検索オプションを利用することができます。例: *apoptosis*
1995:2000[dp] "J Biol Chem"[jour]

入力後、エンターキーまたは"Search"ボタンを押してください。

関連論文

[SPARQLクエリを表示](#)

1478 [Induction of pluripotent stem cells from adult human fibroblasts by defined factors.](#)
PubMed

1020 [Induced pluripotent stem cell lines derived from human somatic cells.](#) PubMed

643 [Embryonic stem cell lines](#)

Authors' Comment What do other papers say about a paper?

Induction of pluripotent stem cells from mouse embryonic and adult fibroblast cultures by defined factors.

Takahashi K, Yamanaka S Cell. 2006 Aug 25;126(4):663-76. PMID:16904174

is cited by the following papers

この論文を引用している著者は、

これらの論文も併せて引用しています。

✓ year
citedBy
section
title
pmid

- 31289326 [Introducing Modulated Reprogramming of Somatic Cells.](#)
Chen Y, Wang PH, et al. Sci Rep. 2019 Jul 09;9(1):9919.
- results The experimental protocol of reprogramming was outlined in Fig. 2A26. Stem cell-like cells appeared around day 12.
- 31293366 [All Together Now: Modeling the Interaction of Neural With Non-neural Systems Using Organoid Models.](#)
Chukwurah E, Osmundsen A, Davis SW, Lizarraga SB Front Neurosci. 2019;13:582.
- introduction The seminal work by Gurdon (Gurdon et al., 1958; Gurdon, 1960) and the group of Shinya Yamanaka (Takahashi and Yamanaka, 2006; Takahashi et al., 2007) to revert an adult somatic cell to an embryonic state by nuclear reprogramming set the stage for the massive expansion in the use of human induced pluripotent stem cell (iPSC) derived models.
- 31295264 [2-CI-C.OXT-A stimulates contraction through the suppression of phosphodiesterase activity in human induced pluripotent stem cell-derived cardiac organoids.](#)

発展的な使い方

- ftpでデータベースのダウンロードが無料で可能
- APIにより利用者の開発したプログラムから検索可能
 - REST / SPARQL
 - <http://colil.dbcls.jp/>

DBCLSResearchServicesContactAbout

Colil by DBCLS (最終更新日: 2019年10月10日)

ヘルプColil RDF Data Portal

被引用論文を指定

PubMed IDを直接入力するか、PubMed検索の結果を利用することで指定できます。

PubMed IDを入力

16904174Search

「23193287」で試す

OR

キーワードを入力 (PubMed検索)

PubMedの検索オプションを利用することができます。例: apoptosis 1995:2000[dp] "J Biol Chem"[jour]

Keywords hereSearch

「iPS 2006:2008[dp] "Cell"[jour]」で試す

入力後、エンターキーまたは"Search"ボタンを押してください。

Authors' CommentWhat do other papers say about a paper?

Induction of pluripotent stem cells from mouse embryonic and adult fibroblast cultures by defined factors.

Takahashi K, Yamanaka SCell. 2006 Aug 25;126(4):663-76. PMID:16904174

is cited by the following papers.

← 前へ

合計: 5799,

20

(1ページの件数),

1

/ 290ページ

次へ →

並べ替え

year

SPARQLクエリを表示

31287022

0

PubMed

PMC

High-content screen in human pluripotent cells identifies miRNA-regulated pathways controlling pluripotency and differentiation.

de Souza Lima IM, Schiavinato JLDS, Paulino Leite SB, Sastre D, Bezerra HLO, Sangiorgi B, Corveloni AC, Thome CH, Faca VM, Covas DT, Zago MA, Giacca M, Mano M, Panepucci RAStem Cell Res Ther. 2019 Jul 08;10(1):202.

background

A set of core transcription factors (TFs), including OCT4, SOX2, KLF4, and c-MYC (OSKM), sustains pluripotency in ESCs [2, 3] and can reprogram somatic cells into induced pluripotent stem cells (iPSCs) [4, 5].

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Reprogramming of human somatic cells to pluripotency with defined factors.

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Direct conversion of fibroblasts to functional neurons by defined factors.

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Core transcriptional regulatory circuitry in human embryonic stem cells.

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Generation of induced pluripotent stem cells without Myc from mouse and human fibroblasts.

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cell-derived cardiac organoids.

Kitsuka T, Itoh M, Amamoto S, Arai KI, Oyama J, Node K, Toda S, Morita S, Nishida T, Nakayama KPLoS One. 2019;14(7):e0213114.

discussion

Takahashi and Yamanaka reported a method for reprogramming fully differentiated fibroblasts derived from the tissues of adult or fetal mice to make cells similar to ES cells [31]. The availability of human cardiac myocytes with differentiated pluripotent stem cells offers a new opportunity to construct in vitro models of heart disease [32], conduct drug screening for new drugs [33], and apply cardiac therapy to

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The transcription factor Hey and nuclear lamins specify and maintain cell identity.

Flint Brodsky N, Bitman-Lotan E, Boico O, Shafat A, Monastirioti M, Gessler M, Delidakis C, Rincon-Arango H, Orian AElife. 20190716;8:.

introduction

transfer and reprogramming of differentiated fibroblasts into pluripotent cells (iPS) have changed the classical view of a rigid 'terminally-differentiated' cell state to a more plastic one (Gurdon, 1962; Takahashi and Yamanaka, 2006; Morris, 2016), suggesting that once established, differentiated cells must actively maintain their identities (Blau and Baltimore, 1991; Natoli, 2010; Holmberg and Perlmann, 2012; Bitman-Lotan and Orian, 2018).

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Generation of iPSCs by Nonintegrative RNA-Based Reprogramming Techniques: Benefits of Self-Replicating RNA versus Synthetic mRNA.

Steinle H, Weber M, Behring A, Mau-Holzmann U, Schlensak C, Wendel HP, Avci-Adali MStem Cells Int. 2019;2019:7641767.

introduction

somatic cells into induced pluripotent stem cells (iPSCs) is mediated by the exogenous delivery of the "Yamanaka" factors Oct4, Klf4, Sox2, and cMyc, and it allows the generation of an unlimited stem cell source for tissue regeneration [1-3]. In the first studies, retroviral vectors were used to deliver the reprogramming factors into cells.

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Mitochondrial Akt Signaling Modulated Reprogramming of Somatic Cells.

Chen YH, Su CC, Deng W, Lock LF, Donovan PJ, Kayala MA, Baldi P, Lee HC, Chen Y, Wang PHSci Rep. 2019 Jul 09;9(1):9919.

discussion

Using the four factors, Oct4, Sox2, Klf4, and c-Myc, iPSCs were recreated from somatic cells[26]. Subsequently, various laboratories developed different protocols and vehicles to produce iPSCs by genetically manipulating critical transcription factors with small molecule chemical compounds. However, the exact signaling network

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Authors' Comment What do other papers say about a paper?

PubMed、PMCページへのリンク、後で見る 共有

Induction of pluripotent stem cells from mouse embryonic and adult fibroblast cultures by defined factors.

Takahashi K, Yamanaka S. Cell. 2006 Aug 25;126(4):663-76. PMID:16904174

← Previous Total: 1810, 20 per page, Page: 1 Next → Sort by pmid

16942632 Unraveling the transcriptional network controlling ES cell pluripotency. Further studies will undoubtedly build on the minimum set(s) of factors required to reprogram different types of somatic cells to a mouse ES cell-like state, as demonstrated by the work of Takahashi and Yamanaka (2006). We can envisage a time when cellular reprogramming may become routine and applied in regenerative medicine.

16966416 The action behind the words: embryonic stem cell research marches on. In August, researchers from Kyoto University in Japan reported identifying four genes that can regress an adult mouse fibroblast to a stem cell-like state (Takahashi and Yamanaka, 2006), and a group at Advanced Cell Technology (Worcester, MA) derived ESCs from single blastomeres of 8-10-cell stage embryos (Fig).

17389240 Frequent and specific immunity to the embryonic stem cell-associated antigen SOX2 in patients with monoclonal gammopathy. The finding (originating from an unbiased search) that immunity to SOX2 (a gene critical for the self-renewal and pluripotency of embryonic stem cells) (14, 15) predicts clinical outcome supports the importance of stem cell genes and self-renewal pathways in cancer biology.

17389240 Frequent and specific immunity to the embryonic stem cell-associated antigen SOX2 in patients with monoclonal gammopathy. Expression of SOX2 is restricted to embryonic and neural stem cells, wherein it plays a critical role in regulating the self-renewal and pluripotency of stem cells (14-15). Recent studies in MM and MGUS have suggested that a minor CD138+ subpopulation of both MM cell lines and primary cells is enriched in clonogenic progenitors, capable of growth in methylcellulose as well as in immune-deficient mice.

17506876 Silencing of core transcription factors in human EC cells highlights the importance of autocrine FGF signaling for self-renewal. Klf4 has recently been implicated in reprogramming fibroblasts to an ES cell-like state, in conjunction with Oct4, Sox2, and c-Myc (58). Hence, the orthologue KLF4 may play an important role in hEC and hES cells, as well. The mRNA level of MYC, though expressed in hEC and hES cells, did not change significantly in the OCT4 and SOX2 knock-downs (data not shown). Another

17531091 Differential development of neuronal physiological responsiveness in two human neural stem cell lines. Traditionally thought of as a proto-oncogene, it has been recently reported that myc may be a 'stemness' gene driving rapid proliferation yet maintain multipotentiality in stem cells (59).

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117 Core transcriptional regulatory circuitry in

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