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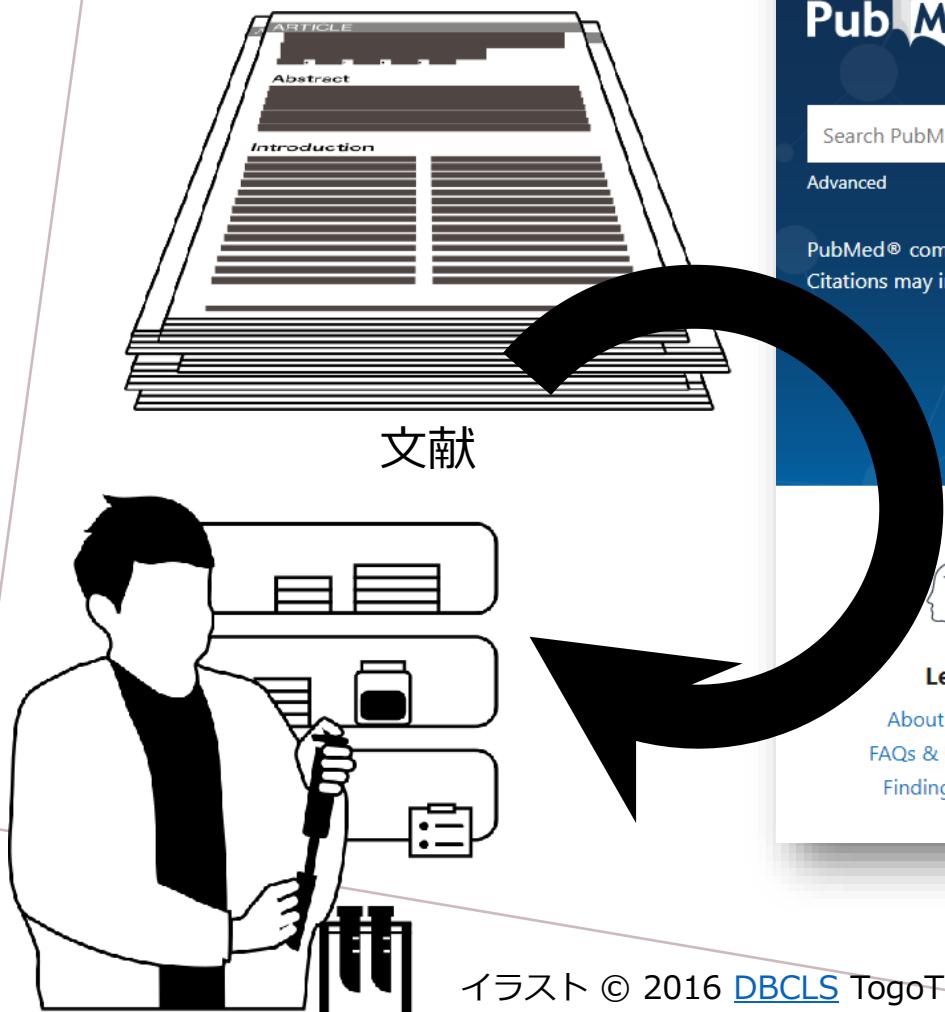
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山本 泰智



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PubMed

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

The screenshot shows a web browser window for the NLM Technical Bulletin. The page header includes the NLM logo, the title "NLM TECHNICAL BULLETIN", and the subtitle "U.S. NATIONAL LIBRARY OF MEDICINE | NATIONAL INSTITUTES OF HEALTH". A search bar at the top right contains the placeholder text "Search here for NLM Technical Bulletin articles". Below the header, a navigation menu offers links to "Current Issue", "Previous Issues", "About", "Stay Current", and a link to "PubMed". A blue banner below the menu displays the text "Table of Contents: 2016 MAY-JUNE No. 410" and a "Previous" button. The main content area features a section titled "PubMed Celebrates its 20th Anniversary!" by Canese K. It highlights the history of PubMed's development, its evolution from an experimental database to a full-fledged service, and its impact on medical research. The text is presented in a clear, readable font, with some terms like "MEDLINE" and "PubMed" appearing in blue as links.

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Table of Contents: 2016 MAY-JUNE No. 410

PubMed Celebrates its 20th Anniversary!
Canese K. PubMed Celebrates its 20th Anniversary! NLM Tech Bull. 2016 May-Jun;(410):e12.

2016 June 21 [posted]

PubMed was first released two decades ago in January 1996 as an experimental database under the National Center for Biotechnology Information (NCBI) retrieval system. The word "experimental" was dropped from the Web site in April 1997, and on June 26, 1997, a Capitol Hill Press conference officially announced [free MEDLINE access via PubMed](#).

See an outline of the early years in the article, [PubMed Celebrates its 10th Anniversary](#).

PubMed continued to evolve and, in 2007, the NCBI retrieval engine was completely redesigned to provide a foundation for the discovery initiative. In 2008, highlights included a number of discovery tools such as, an "also try" feature, query terms in article titles display, and a drug sensor. Collections were added to the My NCBI user tools, automatic term mapping was enhanced, an advanced search feature was added, and citation and gene sensors were released. The PubMed citation sensor continues to be one of the most popular discovery features; users love it!

Highlights for 2009 included a recent activity feature that tracks up to 6 months of a user's NCBI database searches and viewed records, an autosuggest feature, and a totally revamped, user-friendly interface. Feedback from users on the redesigned interface was overwhelmingly positive.

From 2010 to 2011, the PubMed advanced search page was reformatted, a new limits page was released, search terms were modified to automatically display in bold, a CSV selection was added as a "send to file" option, and structured abstracts and images were added to the abstract display. PubMed Mobile was launched for users with limited screen size or on handheld devices. Enhancements were made to the My NCBI My Bibliography feature to assist NIH-funded investigators with tracking and reporting their peer-reviewed publications. The MeSH database and the Clinical Queries page were redesigned to provide the same streamlined interface previously released in PubMed.

In 2012, the My NCBI My Bibliography collection was enhanced with links to similar articles and cited in. Discovery tool additions included the popular "results by year" graph and a PubMed Central Images display. A facet sidebar replaced the limits page and the abstract display "author link" was updated to display results using a computer ranking algorithm to facilitate author name disambiguation. The "send to" menu was augmented with an export to citation manager option. A "save items" widget was added to the abstract display to provide an expedient way to add citations to a My NCBI collection.

In 2013 to 2014, author keywords and social media icons were added to the abstract display and PubMed started accepting and displaying non-English abstracts. A new "relevance sort" option was released and a way to download your entire history was added to the advanced search page. PubMed began indexing multiple author affiliations. PubMed Commons was released as a way for authors to share opinions and information about scientific publications in PubMed. Additionally, PubMed increased the addition of new citations from five to seven days a week.

During 2015 to the present, the trending articles and "frequently viewed together" discovery tools were released. Fuzzy matching to rescue zero results was improved. Additional knowledge panels and sensors were released, for example, the query, "human genome blast" now presents a tool for the user to run a BLAST search from within PubMed. PubMed hit the milestone of 26 million citations; over 1 million citations are added every year.

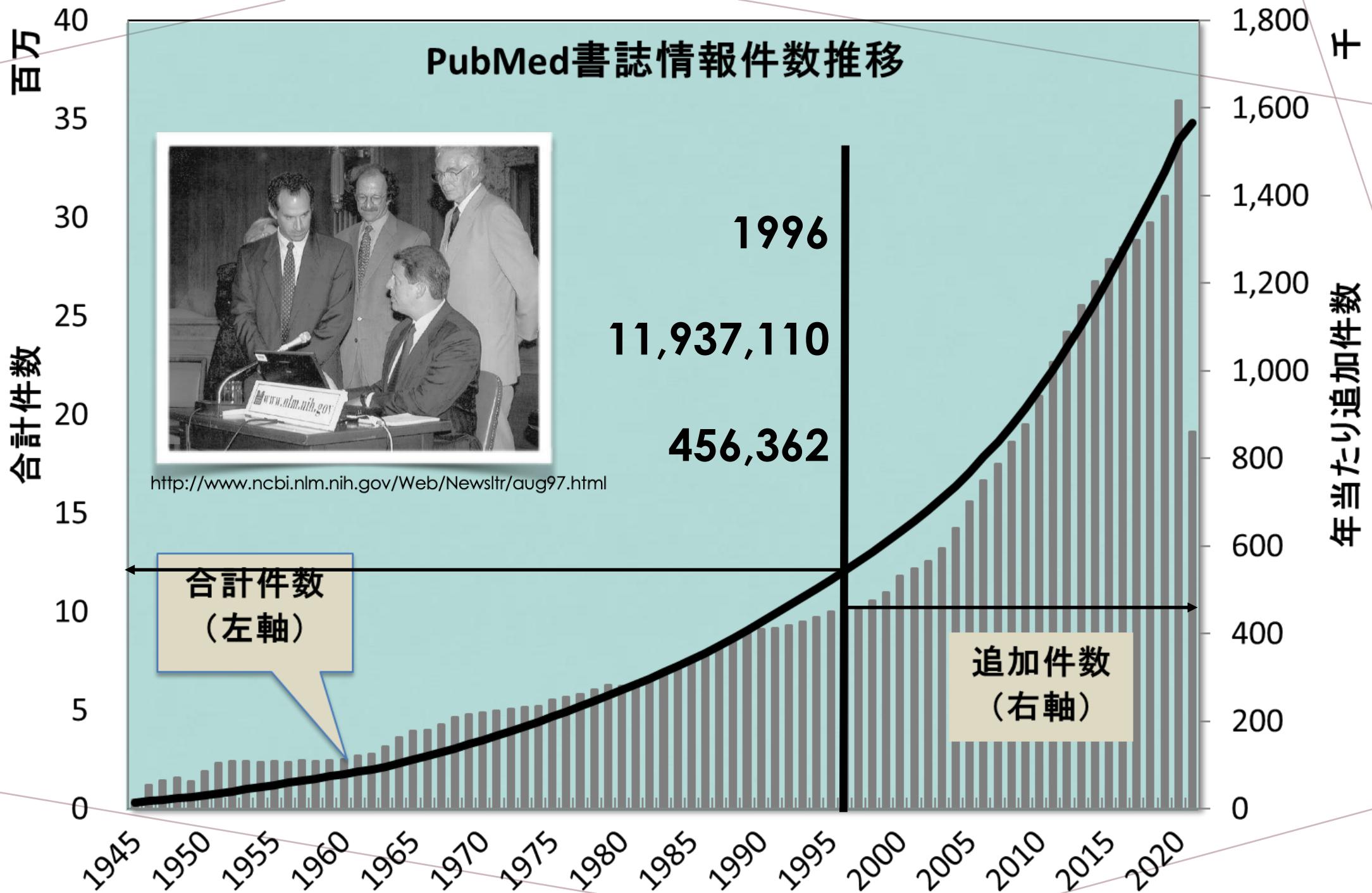
The near future will include a new PubMed data management system that will streamline data submission for publishers and provide an interface for immediate correction of citation errors.

Cheers to PubMed - here's to another 20 years of excellence, evolution, and discovery.

By Kathi Canese
National Center for Biotechnology Information

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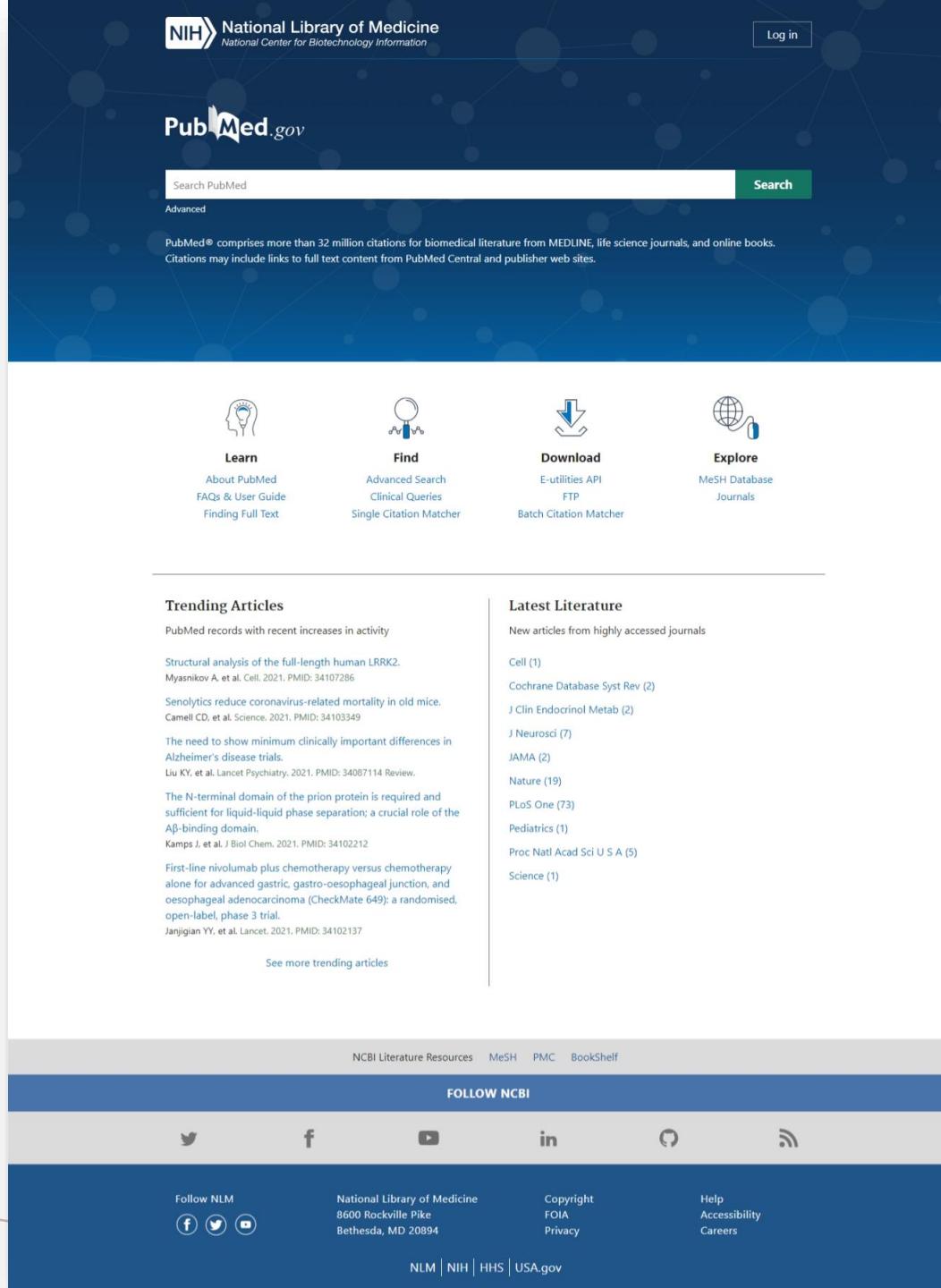
現状

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21/6/10時点で32,656,165
20/9/16時点で31,502,489
19/11/25時点で30,348,625
- 2020年発表分だけで1,514,199件（4137件/日）
- 5200件を超える学術誌

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PubMed Searches	3.3 Billion	3.1 Billion	3.3 Billion	3.3 Billion	3.1 Billion	2.8 Billion	2.7 Billion	2.5 Billion
Web/Interactive	1,076 Million	896 Million	831 Million	846 Million	853 Million	910 Million	900 Million	932 Million
Script/E-Utilities	2.2 Billion	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

PubMed最新情報



The screenshot shows the homepage of PubMed.gov. At the top, the NIH National Library of Medicine logo is displayed. A search bar with the placeholder "Search PubMed" and a green "Search" button are located above a brief description of the database. Below the search area are four main navigation sections: "Learn" (with links to About PubMed, FAQs & User Guide, and Finding Full Text), "Find" (with links to Advanced Search, Clinical Queries, and Single Citation Matcher), "Download" (with links to E-utilities API, FTP, and Batch Citation Matcher), and "Explore" (with links to MeSH Database and Journals). The main content area features two sections: "Trending Articles" and "Latest Literature". The "Trending Articles" section lists recent increases in activity, including a study on LRRK2 and another on Senolytics reducing coronavirus-related mortality. The "Latest Literature" section lists new articles from highly accessed journals like Cell, Cochrane Database Syst Rev, and J Clin Endocrinol Metab. At the bottom, there are links to NCBI Literature Resources, MeSH, PMC, and Bookshelf, along with social media icons for Twitter, Facebook, YouTube, LinkedIn, and RSS. The footer contains links to Follow NLM, National Library of Medicine contact information, Copyright and FOIA/Privacy policies, and Help, Accessibility, and Careers resources.

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Trending Articles

PubMed records with recent increases in activity

Structural analysis of the full-length human LRRK2.
Myasnikov A. et al. Cell. 2021. PMID: 34107286

Senolytics reduce coronavirus-related mortality in old mice.
Camell CD. et al. Science. 2021. PMID: 34103349

The need to show minimum clinically important differences in Alzheimer's disease trials.
Liu KY. et al. Lancet Psychiatry. 2021. PMID: 34087114 Review.

The N-terminal domain of the prior protein is required and sufficient for liquid-liquid phase separation; a crucial role of the Aβ-binding domain.
Kamps J. et al. J Biol Chem. 2021. PMID: 34102212

First-line nivolumab plus chemotherapy versus chemotherapy alone for advanced gastric, gastro-oesophageal junction, and oesophageal adenocarcinoma (CheckMate 649): a randomised, open-label, phase 3 trial.
Janjigian YY. et al. Lancet. 2021. PMID: 34102137

See more trending articles

Latest Literature

New articles from highly accessed journals

Cell (1)

Cochrane Database Syst Rev (2)

J Clin Endocrinol Metab (2)

J Neurosci (7)

JAMA (2)

Nature (19)

PLoS One (73)

Pediatrics (1)

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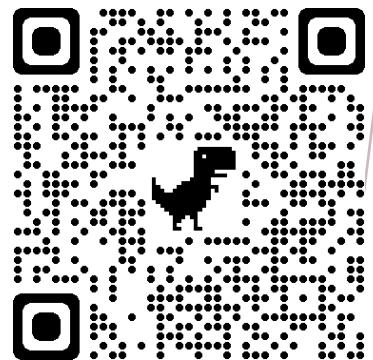
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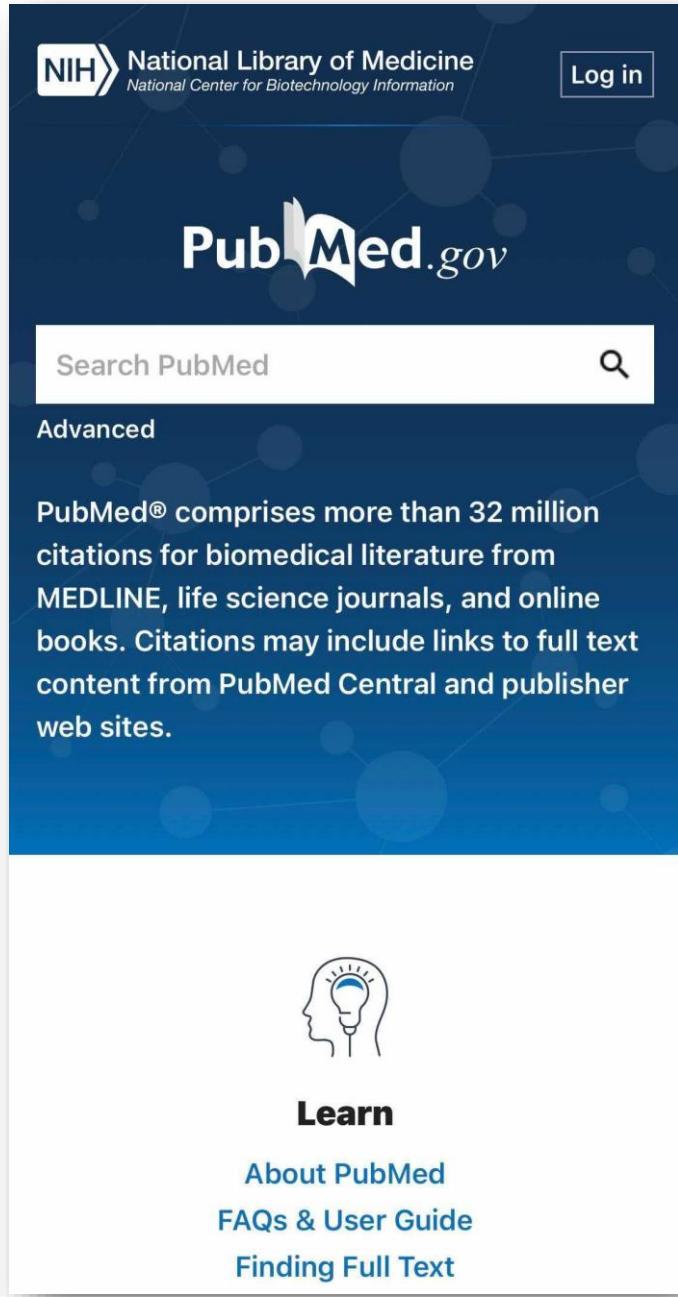
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Follow [PubMed New and Noteworthy](#) for brief announcements highlighting recent enhancements and changes to PubMed.

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- How do I [search by author](#)?
- How do I [search by journal name](#)?
- How do I [find a specific citation](#)? I have some information such as the author, journal name, and publication year.





The screenshot shows the PubMed.gov homepage. At the top left is the NIH logo and "National Library of Medicine National Center for Biotechnology Information". A "Log in" button is at the top right. Below the header is the "PubMed.gov" logo. A search bar with the placeholder "Search PubMed" and a magnifying glass icon is centered. To its left is an "Advanced" link. A large text block below the search bar states: "PubMed® comprises more than 32 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." At the bottom of the page is a "Learn" section with links to "About PubMed", "FAQs & User Guide", and "Finding Full Text". There is also a small icon of a head with a lightbulb inside.

Trending Articles

PubMed records with recent increases in activity

[Structural analysis of the full-length human LRRK2.](#)

Myasnikov A, et al. *Cell*. 2021. PMID: 34107286

[On Having Whiteness.](#)

Moss D. *J Am Psychoanal Assoc*. 2021.

PMID: 34039063

[Senolytics reduce coronavirus-related mortality in old mice.](#)

Camell CD, et al. *Science*. 2021. PMID: 34103349

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Latest Literature

New articles from highly accessed journals

[Brain \(3\)](#)

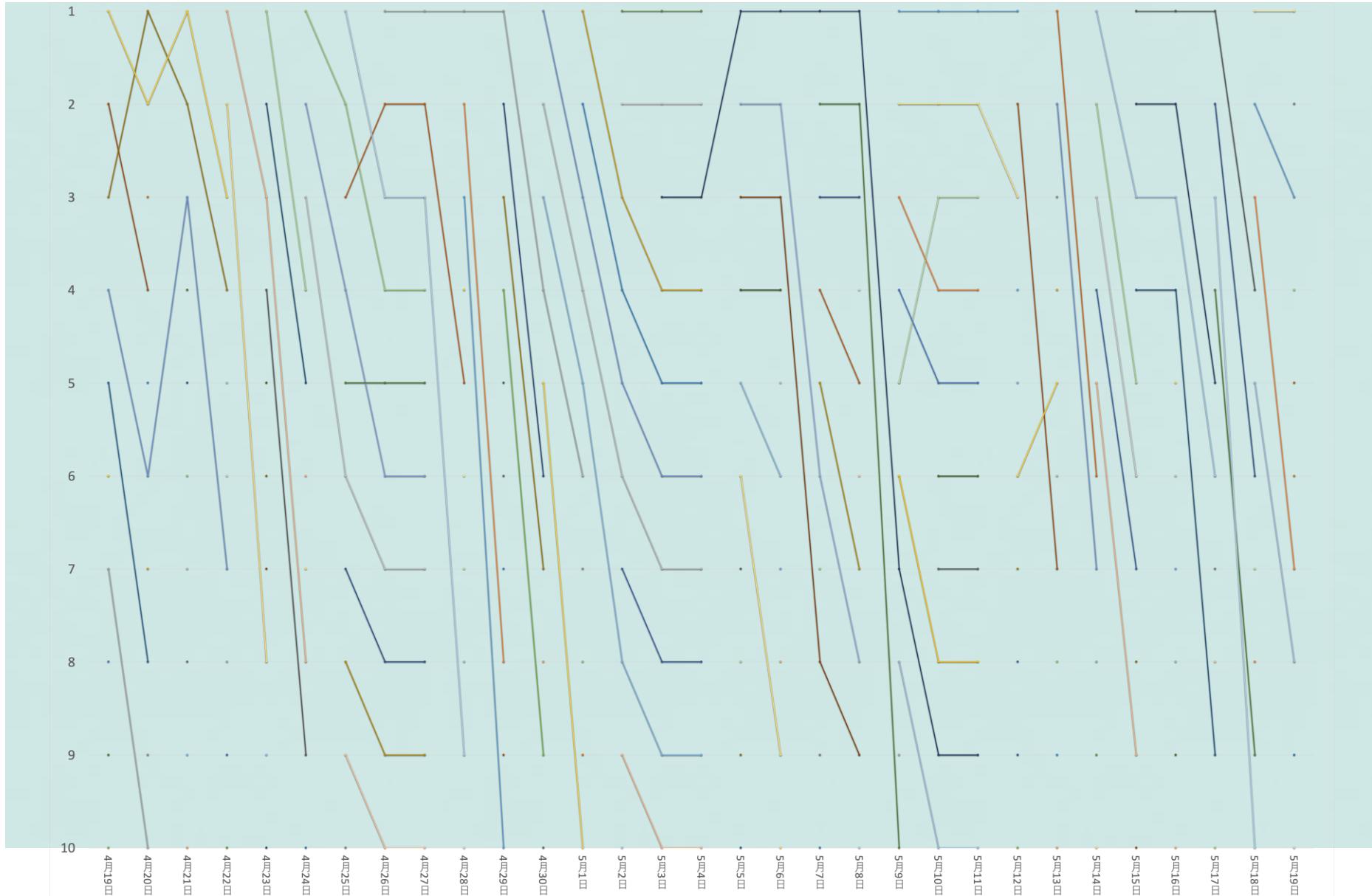
[Cancer Res \(2\)](#)

[Clin Infect Dis \(6\)](#)

[Diabetes Care \(1\)](#)

[J Clin Endocrinol Metab \(3\)](#)

Trending articlesのトレンド



新PubMedの目標

- Modern cloud architecture
- High-quality search
- Fast
- Reliable
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Coronavirus biology and replication: implications for SARS-CoV-2.
1 V'kovski P, Kratzel A, Steiner S, Stalder H, Thiel V.
Nat Rev Microbiol. 2021 Mar;19(3):155-170. doi: 10.1038/s41579-020-00468-6. Epub 2020 Oct 28.
PMID: 33116300 [Free PMC article.](#) Review.
The **SARS-CoV-2** pandemic and its unprecedented global societal and economic disruptive impact has marked the third zoonotic introduction of a highly pathogenic coronavirus into the human population.
...The elucidation of similarities and differences between ...

Mechanisms of SARS-CoV-2 Transmission and Pathogenesis.
2 Harrison AG, Lin T, Wang P.
Trends Immunol. 2020 Dec;41(12):1100-1115. doi: 10.1016/j.it.2020.10.004. Epub 2020 Oct 14.
PMID: 33132005 [Free PMC article.](#) Review.
The emergence of severe acute respiratory syndrome coronavirus 2 (**SARS-CoV-2**) marks the third highly pathogenic coronavirus to spill over into the human population. **SARS-CoV-2** is highly transmissible with a broad tissue tropism tha ...

SARS-CoV-2: Structure, Biology, and Structure-Based Therapeutics Development.
3 Wang MY, Zhao R, Gao LJ, Gao XF, Wang DP, Cao JM.
Front Cell Infect Microbiol. 2020 Nov 25;10:587269. doi: 10.3389/fcimb.2020.587269. eCollection 2020.
PMID: 33324574 [Free PMC article.](#) Review.
The pandemic of the novel severe acute respiratory syndrome coronavirus 2 (**SARS-CoV-2**) has been posing great threats to the world in many aspects. ...We further discussed the biology of **SARS-CoV-2**, including the origin, evolution, ...

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SARS-CoV-2



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 [Covid-19 Drugs.](#)

1 [No authors listed]

Cite 2021 May 10. LiverTox: Clinical and Research Information on Drug-Induced Liver Injury [Internet].

Bethesda (MD): National Institute of Diabetes and Digestive and Kidney Diseases; 2012–.

PMID: 34014630 [Free Books & Documents](#). Review.

In late 2019 a severe outbreak of acute respiratory illness was first identified in Wuhan, China and was shown to be due to a novel coronavirus, the Severe Acute Respiratory Syndrome associated Coronavirus-2 (**SARS-CoV-2**). The infection rapidly spread g ...

- Biochemical and structural insights into the mechanisms of **SARS** coronavirus
4 RNA ribose 2'-O-methylation by nsp16/nsp10 protein complex.

Cite Chen Y, Su C, Ke M, Jin X, Xu L, Zhang Z, Wu A, Sun Y, Yang Z, Tien P, Ahola T, Liang Y, Liu X, Guo D.

PLoS Pathog. 2011 Oct;7(10):e1002294. doi: 10.1371/journal.ppat.1002294. Epub 2011 Oct 13.

PMID: 22022266 [Free PMC article.](#)

A unique feature for **SARS-CoV** is that nsp16 requires non-structural protein nsp10 as a stimulatory factor to execute its MTase activity. Here we report the biochemical characterization of **SARS-CoV 2'-O-MTase** and the crystal structure of nsp16/ns ...

- [**SARS-CoV: 2. Modeling SARS epidemic**].

11 Flahault A.

Cite Med Sci (Paris). 2003 Nov;19(11):1161-4. doi: 10.1051/medsci/200319111161.

PMID: 14648488 [Free article.](#) Review. French. No abstract available.

Epub 2020 Oct 28.

Coronavirus biology and replication: implications for SARS-CoV-2

Philip V'kovski ^{1 2}, Annika Kratzel ^{1 2 3}, Silvio Steiner ^{1 2 3}, Hanspeter Stalder ^{1 2}, Volker Thiel ^{4 5}

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PMID: 33116300 PMCID: PMC7592455 DOI: 10.1038/s41579-020-00468-6

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Abstract

The SARS-CoV-2 pandemic and its unprecedented global societal and economic disruptive impact has marked the third zoonotic introduction of a highly pathogenic coronavirus into the human population. Although the previous coronavirus SARS-CoV and MERS-CoV epidemics raised awareness of the need for clinically available therapeutic or preventive interventions, to date, no treatments with proven efficacy are available. The development of effective intervention strategies relies on the knowledge of molecular and cellular mechanisms of coronavirus infections, which highlights the significance of studying virus-host interactions at the molecular level to identify targets for antiviral intervention and to elucidate critical viral and host determinants that are decisive for the development of severe disease. In this Review, we summarize the first discoveries that shape our current understanding of SARS-CoV-2 infection throughout the intracellular viral life cycle and relate that to our knowledge of coronavirus biology. The elucidation of similarities and differences between SARS-CoV-2 and other coronaviruses will support future preparedness and strategies to combat coronavirus infections.

Conflict of interest statement

The authors declare no competing interests.

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Viral gene expression and RNA synthesis

Virus–host interactions and host response

Coronavirus biology and COVID-19

Conclusions

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[Nat Rev Microbiol.](#) 2020 Oct 28 : 1–16.doi: [10.1038/s41579-020-00468-6](https://doi.org/10.1038/s41579-020-00468-6) [Epub ahead of print]

PMCID: PMC7592455

PMID: 33116300

Coronavirus biology and replication: implications for SARS-CoV-2

Philip V'kovski,^{1,2} Annika Kratzel,^{1,2,3} Silvio Steiner,^{1,2,3} Hanspeter Stalder,^{1,2} and Volker Thiel^{1,2}[Author information](#) ▾ [Article notes](#) ▾ [Copyright and License information](#) ▾ [Disclaimer](#)

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Subject terms: SARS-CoV-2, Virus-host interactions, Virus structures

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The SARS-CoV-2 Infection Cycle: A Survey of Viral Membrane Proteins, Their Functional Interacti [Int J Mol Sci. 2021]

In-silico nucleotide and protein analyses of S-gene region in selected zoonotic coronaviruses reveal cons [Pan Afr Med J. 2020]

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Coronavirus biology and replication: implications for SARS-CoV-2

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Abstract

The SARS-CoV-2 pandemic and its unprecedented global impact have marked the third zoonotic introduction of a coronavirus into the human population. Although the previous coronaviruses have provided a wealth of knowledge of the need for clinically available therapeutic interventions, no treatments with proven efficacy are available. The development of effective treatments will depend on a deep understanding of molecular and cellular mechanisms of viral pathogenesis. This Review highlights the significance of studying virus-host interactions and the potential for therapeutic intervention and to elucidate critical viral and host determinants that are decisive for the development of severe disease. In this Review, we summarize the first discoveries that shape our current understanding of SARS-CoV-2 infection throughout the intracellular viral life cycle and relate that to our knowledge of coronavirus biology. The elucidation of similarities and differences between SARS-CoV-2 and other coronaviruses will support future preparedness and strategies to combat coronavirus infections.

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V'kovski P, Kratzel A, Steiner S, Stalder H, Thiel V. Coronavirus biology and replication: implications for SARS-CoV-2. *Nat Rev Microbiol.* 2021 Mar;19(3):155-170. doi: 10.1038/s41579-020-00468-6. Epub 2020 Oct 28. PMID: 33116300; PMCID: PMC7592455.

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The screenshot shows the PubMed.gov search results for the query "SARS-CoV-2". The results include a summary of the article, abstract, conflict of interest statement, figures, similar articles, cited by, references, publication types, MeSH terms, substances, related information, and linkout resources.

Summary: SARS-CoV-2 biology and replication: implications for SARS-CoV-2. *Pathog Immunol* 2021; 12(1):1-10. doi: 10.1089/pat.2020.0402. PMID: 33500000; PMCID: PMC8750000. Free PMC article.

Abstract: The SARS-CoV-2 pandemic has been characterized by global spread and enormous diagnostic challenges. The virus has been shown to have a high mutation rate, which may explain its ability to evade the immune system, although the previous consensus was that SARS-CoV-2 had low mutation rates. These findings are important for understanding the pathogenesis of SARS-CoV-2, which highlights the need for continued research and development of new treatments and vaccines. This review summarizes the current understanding of SARS-CoV-2 infection, highlighting the importance of early diagnosis and treatment, and the need for continued research and development of new treatments and vaccines. It also discusses the potential role of SARS-CoV-2 in other diseases, such as COVID-19 and other coronaviruses, and suggests future perspectives and strategies to combat coronavirus.

Conflict of interest statement: The authors declare no competing interests.

Figures:

- Fig 1. The coronavirus life cycle
- Fig 2. Viral entry pathways
- Fig 3. Viral genome processing and maturation
- Fig 4. Viral assembly and budding

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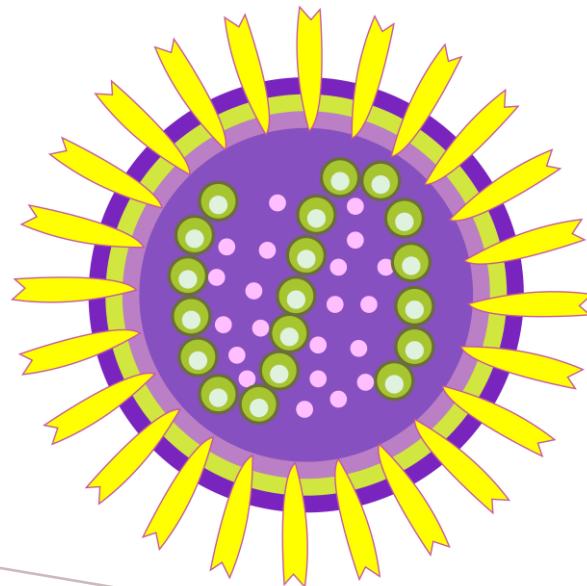


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MeSH terms

- > Animals
- > COVID-19 / drug therapy
- > COVID-19 / virology*
- > Host-Pathogen Interactions
- > Humans
- > SARS-CoV-2 / chemistry
- > SARS-CoV-2 / physiology*
- > Viral Proteins / genetics
- > Viral Proteins / metabolism
- > Virus Internalization
- > Virus Replication

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

2021新登場

300近く（ $\approx 1\%$ ）のMeSHタームが新たに追加される

C01 Infections

Bacterial Zoonoses	Blood-Borne Infections	COVID-19
Latent Infection	Severe Fever with Thrombocytopenia Syndrome	Tinea cruris
Viral Zoonoses		

C04 Neoplasms

Cardiac Papillary Fibroelastoma	Colitis-Associated Neoplasms	Mesothelioma, Malignant
Warburg Effect, Oncologic		

C05 Musculoskeletal Diseases

Autosomal Emery-Dreifuss	Chronic Exertional Compartment Syndrome	Developmental Dysplasia of the Hip
Muscular Dystrophy		
X-Linked Emery-Dreifuss Muscular Dystrophy		

C06 Digestive System Diseases

Colitis-Associated Neoplasms

C07 Stomatognathic Diseases

Kimura Disease

C08 Respiratory Tract Diseases

COVID-19	Mesothelioma, Malignant

C09 Otorhinolaryngologic Diseases

Semicircular Canal Dehiscence

B01 Eukaryota

Amblyomma	Aureobasidium	Auricularia
Batrachochytrium	Bipolaris	Calliphoridae
Carnivorous Plant	Ceratocystis	Cercospora
Chilopoda	Curvularia	Erysiphe
Fonsecaea	Fungal Genus Humicola	Fungal Genus Venturia
Hericium	Inonotus	Leptosphaeria
Mycosphaerella	Pangolins	Pestalotiopsis
Phellinus	Phoma	Phomopsis
Puccinia	Rhizopus oryzae	Service Animals
Therapy Animals	Toona	Working Dogs

B02 Archaea

No new headings

B03 Bacteria

Actinomadura	Akkermansia	Amycolatopsis
Aquifex	Caldicellulosiruptor	Clavibacter
Clostridioides	Dehalococcoides	Dermatophilus
Dickeya	Exiguobacterium	Liberibacter
Lyngbya	Mediterranea	Microbacterium
Neglecta	Nocardioides	Nocardiopsis
Orientia	Pannus	Phormidium
Planktothrix	Pseudonocardia	Rappaport
Renibacterium	Sorangium	Tannerella
Thermobifida	Thermomonospora	Thermosynechococcus
Thermotoga	Vancomycin-Resistant Staphylococcus aureus	Xylophilus

B04 Viruses

Deltacoronavirus	Double Stranded RNA Viruses	Negative-Sense RNA Viruses
Pegivirus	Positive-Strand RNA Viruses	SARS-CoV-2

2021年6月

MeSH terms

- > Animals
- > Betacoronavirus / classification*
- > COVID-19
- > 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
- > SARS-CoV-2
- > Zoonoses / virology*

2020年9月

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*

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

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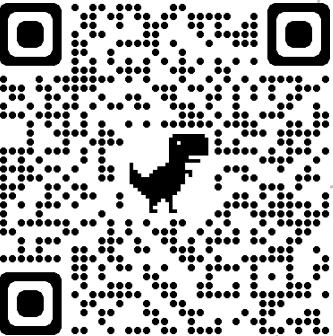
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MeSH MeSH SARS-CoV-2 Search Help

Summary 20 per page Create alert Limits Advanced Send to: PubMed Search Builder

Items: 1 to 20 of 38 << First < Prev Page 1 of 2 Next > Last >>

[SARS-CoV-2](#)
1. A species of BETACORONAVIRUS causing atypical respiratory disease (COVID-19) in humans. The organism was first identified in 2019 in Wuhan, China. The natural host is the Chinese intermediate horseshoe bat, RHINOLOPHUS affinis.
Year introduced: 2021(2020)

[SARS-CoV-2 variants \[Supplementary Concept\]](#)
2. Sequence variants of **SARS-COV-2** virus when compared to the reference sequence (NC_045512.2). Many are under investigation for various mutations and their potential impact on COVID-19 (e.g., transmissibility, diagnosis, vaccine effectiveness or clinical presentation or severity). For instance variant B.1.1.7 is characterized by a set of mutations including N501Y on the spike protein which binds human ACE2 PROTEIN. There are more than 900 registered variants as of February 2021.
Date introduced: December 21, 2020

[COVID-19 Serological Testing](#)
3. Diagnosis of COVID-19 by assaying bodily fluids or tissues for the presence antibodies specific to **SARS-COV-2** or its antigens.
Year introduced: 2021

[3C-like proteinase, SARS-CoV-2 \[Supplementary Concept\]](#)
4. Date introduced: September 30, 2020

[COVID-19 Vaccines](#)
5. Vaccines or candidate vaccines containing **SARS-CoV-2** component antigens, genetic materials, or inactivated **SARS-CoV-2** virus, and designed to prevent COVID-19.
Year introduced: 2021

[nucleocapsid phosphoprotein, SARS-CoV-2 \[Supplementary Concept\]](#)
6. RefSeq NC_045512
Date introduced: October 1, 2020

Add to search builder AND Search PubMed YouTube Tutorial

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Search details "sars-cov-2"[MeSH Terms] OR SARS-CoV-2[Text Word] Search See more...

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SARS-CoV-2

A species of BETACORONAVIRUS causing atypical respiratory disease (COVID-19) in humans. The organism was first identified in 2019 in Wuhan, China. The natural host is the Chinese intermediate horseshoe bat, RHINOLOPHUS affinis.

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[Subheadings:](#)

- analysis
- anatomy and histology
- chemistry
- classification
- cytology
- drug effects
- enzymology
- etiology
- genetics
- growth and development
- immunology
- isolation and purification
- metabolism
- pathogenicity
- physiology
- radiation effects
- ultrastructure

Restrict to MeSH Major Topic.

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

Tree Number(s): B04.820.578.500.540.150.113.968

MeSH Unique ID: D000086402

Registry Number: txid2697049

Entry Terms:

- Coronavirus Disease 2019 Virus
- 2019 Novel Coronavirus
- 2019 Novel Coronaviruses
- Coronavirus, 2019 Novel
- Novel Coronavirus, 2019
- Wuhan Seafood Market Pneumonia Virus
- SARS-CoV-2 Virus
- SARS CoV 2 Virus
- SARS-CoV-2 Viruses
- Virus, SARS-CoV-2
- 2019-nCoV
- COVID-19 Virus
- COVID 19 Virus
- COVID-19 Viruses
- Virus, COVID-19
- Wuhan Coronavirus
- Coronavirus, Wuhan
- SARS Coronavirus 2
- Coronavirus 2, SARS
- Severe Acute Respiratory Syndrome Coronavirus 2

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[Positive-Strand RNA Viruses](#)

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[Coronaviridae](#)

[Coronavirus](#)

[Betacoronavirus](#)

[SARS-CoV-2](#)

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②

①

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Registry Number: txid2697049

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③
④

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MeSH Unique ID: D000086402

Registry Number: txid2697049

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- 2019 Novel Coronavirus

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- 1 Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.

Cite Wei WL, Wu SF, Li HJ, Li ZW, Qu H, Yao CL, Zhang JQ, Li JY, Wu WY, Guo DA.

Share Chin J Nat Med. 2021 Jun;19(6):473-480. doi: 10.1016/S1875-5364(21)60046-8.

PMID: 34092298 [Free PMC article](#).

- 2 Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.

Cite Bakowski MA, Beutler N, Wolff KC, Kirkpatrick MG, Chen E, Nguyen TH, Riva L, Shaabani N, Parren M, Ricketts J, Gupta AK, Pan K, Kuo P, Fuller M, Garcia E, Teijaro JR, Yang L, Sahoo D, Chi V, Huang E, Vargas N, Roberts AJ, Das S, Ghosh P, Woods AK, Joseph SB, Hull MV, Schultz PG, Burton DR, Chatterjee AK, McNamara CW, Rogers TF.

Share Nat Commun. 2021 Jun;3:12(1):3309. doi: 10.1038/s41467-021-23328-0.

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- 3 Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in Asymptomatic SARS-CoV-2 Infected Subjects: A Pilot Clinical Trial in Lebanon.

Cite Samaha AA, Mouawia H, Fawaz M, Hassan H, Salami A, Bazzal AA, Saab HB, Al-Wakeel M, Alsaabi A, Chouman M, Moussawi MA, Ayoub H, Raad A, Hajjeh O, Eid AH, Raad H.

Share Viruses. 2021 May 26;13(6):989. doi: 10.3390/v13060989.

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Search	Actions	Details	Query	Results	Time
#4	...	>	Search: "SARS-CoV-2/drug effects"[Majr] Sort by: Most Recent	692	04:28:19
#3	...	>	Search: SARS-CoV-2 Filters: from 2000 - 2018 Sort by: Publication Date	12	02:21:12
#1	...	>	Search: SARS-CoV-2	87,887	23:47:47

Showing 1 to 3 of 3 entries

Search	Actions	Details	Query	Results	Time
#4	...	▼	Search: "SARS-CoV-2/drug effects" [Major Topic] Sort by: Most Recent "sars cov 2/drug effects"[MeSH Major Topic]	692	04:28:19
#3	...	▼	Search: SARS-CoV-2 Filters: from 2000 - 2018 Sort by: Publication Date ("sars cov 2"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[All Fields]) AND (2000:2018[pdat])	12	02:21:12
#1	...	▼	<p>Translations</p> <p>SARS-CoV-2: "sars-cov-2"[MeSH Terms] OR "sars-cov-2"[All Fields] OR "sars cov 2"[All Fields]</p>	87,887	23:47:47

Search Field descriptions and tags

Affiliation [AD]	Full Investigator Name [FIR]	Pagination [PG]
All Fields [ALL]	Grant Number [GR]	Personal Name as Subject [PS]
Article Identifier [AID]	Investigator [IR]	Pharmacological Action [PA]
Author [AU]	ISBN [ISBN]	Place of Publication [PL]
Author Identifier [AUID]	Issue [IP]	PMCID and MID
Book [BOOK]	Journal [TA]	PMID [PMID]
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Completion Date [DCOM]	Last Author Name [LASTAU]	Publication Type [PT]
Conflict of Interest Statement [COIS]	Location ID [LID]	Publisher [PUBN]
Corporate Author [CN]	MeSH Date [MHDA]	Secondary Source ID [SI]
Create Date [CRDT]	MeSH Major Topic [MAJR]	Subset [SB]
EC/RN Number [RN]	MeSH Subheadings [SH]	Supplementary Concept [NM]
Editor [ED]	MeSH Terms [MH]	Text Words [TW]
Entry Date [EDAT]	Modification Date [LR]	Title [TI]
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First Author Name [1AU]	Other Term [OT]	Transliterated Title [TT]
Full Author Name [FAU]	Owner	Volume [VI]

AND, OR, NOT

- ・検索語を複数入力して、それらの間の条件を指定できる
 - ・ **AND**: すべての検索語を含む
 - ・ **OR**: いずれかの検索語を含む
 - ・ **NOT**: NOT直後の検索語を含まない



Search: **sars-cov-2 NOT vaccine**

("sars cov 2"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[All Fields]) NOT ("vaccin"[Supplementary Concept] OR "vaccin"[All Fields] OR "vaccination"[MeSH Terms] OR "vaccination"[All Fields] OR "vaccinable"[All Fields] OR "vaccinal"[All Fields] OR "vaccinate"[All Fields] OR "vaccinated"[All Fields] OR "vaccinates"[All Fields] OR "vaccinating"[All Fields] OR "vaccinations"[All Fields] OR "vaccination s"[All Fields] OR "vaccinator"[All Fields] OR "vaccinators"[All Fields] OR "vaccine s"[All Fields] OR "vaccined"[All Fields] OR "vaccines"[MeSH Terms] OR "vaccines"[All Fields] OR "vaccine"[All Fields] OR "vaccins"[All Fields])

Translations

sars-cov-2: "sars-cov-2"[MeSH Terms] OR "sars-cov-2"[All Fields] OR "sars cov 2"[All Fields]

vaccine: "vaccin"[Supplementary Concept] OR "vaccin"[All Fields] OR "vaccination"[MeSH Terms] OR "vaccination"[All Fields] OR "vaccinable"[All Fields] OR "vaccinal"[All Fields] OR "vaccinate"[All Fields] OR "vaccinated"[All Fields] OR "vaccinates"[All Fields] OR "vaccinating"[All Fields] OR "vaccinations"[All Fields] OR "vaccination's"[All Fields] OR "vaccinator"[All Fields] OR "vaccinators"[All Fields] OR "vaccine's"[All Fields] OR "vaccined"[All Fields] OR "vaccines"[MeSH Terms] OR "vaccines"[All Fields] OR "vaccine"[All Fields] OR "vaccins"[All Fields]

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...

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SARS-CoV-2/drug effects"[Major Topic] Sort by: Most Recent

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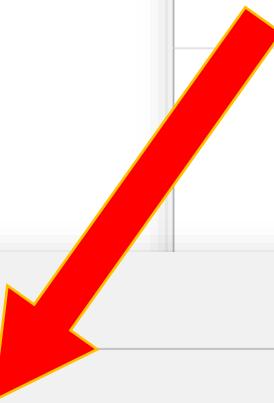
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Translations

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Search	Actions	Details	Query	Results	Time
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			Translations		





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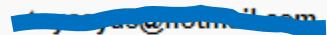
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Search terms: "SARS-CoV-2/drug effects"
[Majr]

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No

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Frequency: Monthly

Which day? The first Sunday

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What's new for 'sars cov 2 vaccine' in PubMed

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Sent on Thursday, 2021 June 10

Search: sars cov 2 vaccine

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PubMed Results

Items 1-5 of 38 ([Display the 5 citations in PubMed](#))

1. [Immunogenicity of Ad26.COV2.S vaccine against SARS-CoV-2 variants in humans.](#)

Alter G, Yu J, Liu J, Chandrashekhar A, Borducchi EN, Tostanoski LH, McMahan K, Jacob-Dolan C, Martinez DR, Chang A, Anioke T, Lifton M, Nkolola J, Stephenson KE, Atyeo C, Shin S, Fields P, Kaplan I, Robins H, Amanat F, Krammer F, Baric RS, Le Gars M, Sadoff J, de Groot AM, Heerwagh D, Struyf F, Douoguih M, van Hoof J, Schuitemaker H, Barouch DH.

Nature. 2021 Jun 9. doi: 10.1038/s41586-021-03681-2. Online ahead of print.

PMID: 34107529

2. [A conceptual approach to the rationale for SARS-CoV-2 vaccine allocation prioritisation.](#)

Kobrosly-Vassopoulos M, Morozio C, Koniaridou M, Evangelou E, Dwyer L, Afum Adjei A, Awiach A

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Features

Huashi Baidu prescription HSBDF recommended in the Guideline for the Diagnosis and Treatment of Novel Coronavirus 2019 nCoV Pneumonia On Trials the Seventh Edition was clinically used to treat severe corona virus disease 2019 COVID 19 with cough blood stained sputum inhibited defecation red tongue etc symptoms This study was aimed to elucidate and profile the knowledge on its chemical constituents and the potential anti inflammatory effect in vitro In the study the chemical constituents in extract of HSBDF were characterized by UPLC Q TOF MS in both negative and positive modes and the pro in ammatory cytokines were measured by enzyme linked immunosorbent assays ELISA to determine the effects of HSBDF in lipopolysaccharide LPS stimulated RAW264 7 cells The results showed that a total of 217 chemical constituents were tentatively characterized in HSBDF Moreover HSBDF could alleviate the expression levels of IL 6 and TNF in the cell models indicating that the antiviral effects of HSBDF might be associated with regulation of the inflammatory cytokines production in RAW264 7 cells We hope that the results could be served as the basic data for further study of HSBDF on anti COVID 19 effect

Start PubMed Search

Export Data

MeSH Terms

- Lipopolysaccharides
- Cytokines
- Coronavirus
- Interleukin-6
- SARS-CoV-2
- Cough
- Antiviral Agents
- huashi baidu
- COVID-19
- Defecation
- Sputum
- RAW 264.7 Cells
- Coronavirus Infections
- Pneumonia
- Computers
- Anti-Inflammatory Agents
- Enzyme-Linked Immunosorbent Assay
- Plant Extracts
- Prescriptions
- Tongue

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. Extract of buckwheat sprouts scavenges oxidation and inhibits pro-inflammatory mediators in lipopolysaccharide-stimulated macrophages (RAW264.7). PMID: 23867243
2. Anti-inflammatory effects of ethyl acetate fraction from *Melilotus suaveolens* Ledeb on LPS-stimulated RAW 264.7 cells. PMID: 19429346
3. Viburnum pichinchense methanol extract exerts anti-inflammatory effects via targeting the NF-kappaB and



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2. Anti-inflammatory effects of ethyl acetate fraction from *Melilotus suaveolens* Ledeb on LPS-stimulated RAW 264.7 cells. PMID: [19429346](#)
3. Viburnum pichinchense methanol extract exerts anti-inflammatory effects via targeting the NF-kappaB and caspase-11 non-canonical inflammasome pathways in macrophages. PMID: [31419499](#)
4. Anti-inflammatory constituents from *Perilla frutescens* on lipopolysaccharide-stimulated RAW264.7 cells. PMID: [30121232](#)
5. Tibetan medicine Kuan-Jin-Teng exerts anti-arthritis effects on collagen-induced arthritis rats via inhibition the production of pro-inflammatory cytokines and down-regulation of MAPK signaling pathway. PMID: [30802713](#)
6. Chemical constituents from the rhizomes of *Polygonatum sibiricum* Red. and anti-inflammatory activity in RAW264.7 macrophage cells. PMID: [29451015](#)
7. Inhibition of Tumor Necrosis Factor-alpha and Interleukin-1beta Production in Lipopolysaccharide-Stimulated Monocytes by Methanolic Extract of *Elephantopus scaber* Linn and Identification of Bioactive Components. PMID: [26875087](#)
8. Investigation of constituents from *Cinnamomum camphora* (L.) J. Presl and evaluation of their anti-inflammatory properties in lipopolysaccharide-stimulated RAW 264.7 macrophages. PMID: [29660467](#)
9. Anti-inflammatory effects of methanol extracts of the root of *Lilium lancifolium* on LPS-stimulated Raw264.7 cells. PMID: [20412846](#)
10. Chemical constituents from the tubers of *Scirpus yagara* and their anti-inflammatory activities. PMID: [26959960](#)

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692 results

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- 1 Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.

Cite Wei WL, Wu SF, Li HJ, Li ZW, Qu H, Yao CL, Zhang JQ, Li JY, Wu WY, Guo DA.

Share Chin J Nat Med. 2021 Jun;19(6):473-480. doi: 10.1016/S1875-5364(21)60046-8.

PMID: 34092298 [Free PMC article](#).

- 2 Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.

Cite Bakowski MA, Beutler N, Wolff KC, Kirkpatrick MG, Chen E, Nguyen TH, Riva L, Shaabani N, Parren M, Ricketts J, Gupta AK, Pan K, Kuo P, Fuller M, Garcia E, Teijaro JR, Yang L, Sahoo D, Chi V, Huang E, Vargas N, Roberts AJ, Das S, Ghosh P, Woods AK, Joseph SB, Hull MV, Schultz PG, Burton DR, Chatterjee AK, McNamara CW, Rogers TF.

Share Nat Commun. 2021 Jun;12(1):3309. doi: 10.1038/s41467-021-23328-0.

PMID: 34083527 [Free PMC article](#).

- 3 Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in Asymptomatic SARS-CoV-2 Infected Subjects: A Pilot Clinical Trial in Lebanon.

Cite Samaha AA, Mouawia H, Fawaz M, Hassan H, Salami A, Bazzal AA, Saab HB, Al-Wakeel M, Alsaabi A, Chouman M, Moussawi MA, Ayoub H, Raad A, Hajjeh O, Eid AH, Raad H.

Share Viruses. 2021 May 26;13(6):989. doi: 10.3390/v13060989.

PMID: 34073401 [Free article](#). Clinical Trial.

PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use [PubMed](#) directly.

"SARS-CoV-2/drug effects"[Majr]

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Search

COVID-19 Articles

Category:

Treatment

5 of 657 results

Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.
Wei WL, et al. Chin J Nat Med. 2021. PMID: 34092298 [Free PMC article](#).

Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.
Bakowski MA, et al. Nat Commun. 2021. PMID: 34083527
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Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in Asymptomatic SARS-CoV-2 Infected Subjects: A Pilot Clinical Trial in Lebanon.
Samaha AA, et al. Viruses. 2021. PMID: 34073401 [Free article](#).
Clinical Trial.

Noble Metal Organometallic Complexes Display Antiviral Activity against SARS-CoV-2.
Chuong C, et al. Viruses. 2021. PMID: 34070524 [Free article](#).

The COVID-19 pandemic and N95 masks: reusability and decontamination methods.
Peters A, et al. Antimicrob Resist Infect Control. 2021. PMID: 34051855
[Free PMC article](#).

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Clinical Study Categories

Category:

Therapy

Scope:

Broad

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Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.
Wei WL, et al. Chin J Nat Med. 2021. PMID: 34092298 [Free PMC article](#).

Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.
Bakowski MA, et al. Nat Commun. 2021. PMID: 34083527
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Effects of a Single Dose of Ivermectin on Viral and Clinical Outcomes in Asymptomatic SARS-CoV-2 Infected Subjects: A Pilot Clinical Trial in Lebanon.
Samaha AA, et al. Viruses. 2021. PMID: 34073401 [Free article](#).
Clinical Trial.

Inhalable Nanobody (PiN-21) prevents and treats SARS-CoV-2 infections in Syrian hamsters at ultra-low doses.
Nambulli S, et al. Sci Adv. 2021. PMID: 34039613 [Free PMC article](#).

Benefits of treatment with favipiravir in hospitalized patients for COVID-19: a retrospective observational case-control study.
Ucan A, et al. Virol J. 2021. PMID: 34034765 [Free PMC article](#).

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COVID-19 Articles

Category:

- General
- Mechanism
- Transmission
- Diagnosis
- Treatment
- Prevention
- Case Report
- Forecasting

5 of 657 results

[Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.](#)

Wei WL, et al. Chin J Nat Med. 2021. PMID: 34092298 [Free PMC article.](#)

[Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.](#)

Bakowski MA, et al. Nat Commun. 2021. PMID: 34083527

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Clinical Study Categories

Category:

Scope:

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[Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.](#)

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Bakowski MA, et al. Nat Commun. 2021. PMID: 34083527

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Category:

Therapy

Scope:

- Therapy
- Clinical Prediction Guides
- Diagnosis
- Etiology
- Prognosis

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[Chemical profiling of Huashi Baidu prescription, an effective anti-COVID-19 TCM formula, by UPLC-Q-TOF/MS.](#)

Wei WL, et al. Chin J Nat Med. 2021. PMID: 34092298 [Free PMC article.](#)

[Drug repurposing screens identify chemical entities for the development of COVID-19 interventions.](#)

Bakowski MA, et al. Nat Commun. 2021. PMID: 34083527

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COVID-19 article filters

The COVID-19 article filters limit retrieval to citations about the 2019 novel coronavirus; these filters may evolve over time.

Category	Filter name	PubMed equivalent
General	LitCGeneral	("COVID-19" OR "COVID-19"[MeSH Terms] OR "COVID-19 Vaccines" OR "COVID-19 Vaccines"[MeSH Terms] OR "COVID-19 serotherapy" OR "COVID-19 serotherapy" [Supplementary Concept] OR "COVID-19 Nucleic Acid Testing" OR "covid-19 nucleic acid testing"[MeSH Terms] OR "COVID-19 Serological Testing" OR "covid-19 serological testing"[MeSH Terms] OR "COVID-19 Testing" OR "covid-19 testing"[MeSH Terms] OR "SARS-CoV-2" OR "sars-cov-2"[MeSH Terms] OR "Severe Acute Respiratory Syndrome Coronavirus 2" OR "NCOV" OR "2019 NCOV" OR ("coronavirus"[MeSH Terms] OR "coronavirus" OR "COV") AND 2019/11/01[PDAT] : 3000/12/31[PDAT]))
Mechanism	LitCMechanism	("COVID-19" OR "COVID-19"[MeSH Terms] OR "COVID-19 Vaccines" OR "COVID-19 Vaccines"[MeSH Terms] OR "COVID-19 serotherapy" OR "COVID-19 serotherapy" [Supplementary Concept] OR "COVID-19 Nucleic Acid Testing" OR "covid-19 nucleic acid testing"[MeSH Terms] OR "COVID-19 Serological Testing" OR "covid-19 serological testing"[MeSH Terms] OR "COVID-19 Testing" OR "covid-19 testing"[MeSH Terms] OR "SARS-CoV-2" OR "sars-cov-2"[MeSH Terms] OR "Severe Acute Respiratory Syndrome Coronavirus 2" OR "NCOV" OR "2019 NCOV" OR ("coronavirus"[MeSH Terms] OR "coronavirus" OR "COV") AND 2019/11/01[PDAT] : 3000/12/31[PDAT])) AND ("metabolic"[All Fields] OR "metabolical"[All Fields] OR "metabolically"[All Fields] OR "metabolics"[All Fields] OR "metabolism"[MeSH Terms] OR "metabolism"[All Fields] OR "metabolisms"[All Fields] OR "metabolism"[MeSH Subheading] OR "metabolic networks and pathways" [MeSH Terms] OR ("metabolic"[All Fields] AND "networks" [All Fields] AND "pathways"[All Fields]) OR "metabolic networks and pathways"[All Fields] OR "metabolities"[All Fields] OR "metabolization"[All Fields] OR "metabolize"[All Fields] OR "metabolized"[All Fields] OR "metabolizer"[All Fields] OR "metabolizers"[All Fields] OR "metabolizes"[All Fields] OR "metabolizing"[All Fields] OR "virology"[MeSH Subheading] OR ("mechanism"[All Fields] OR "mechanisms"[All Fields]) OR ("etiology"[MeSH Subheading] OR "etiology"[All Fields] OR "pathogenesis" [All Fields]) OR "pathologic process"[All Fields])

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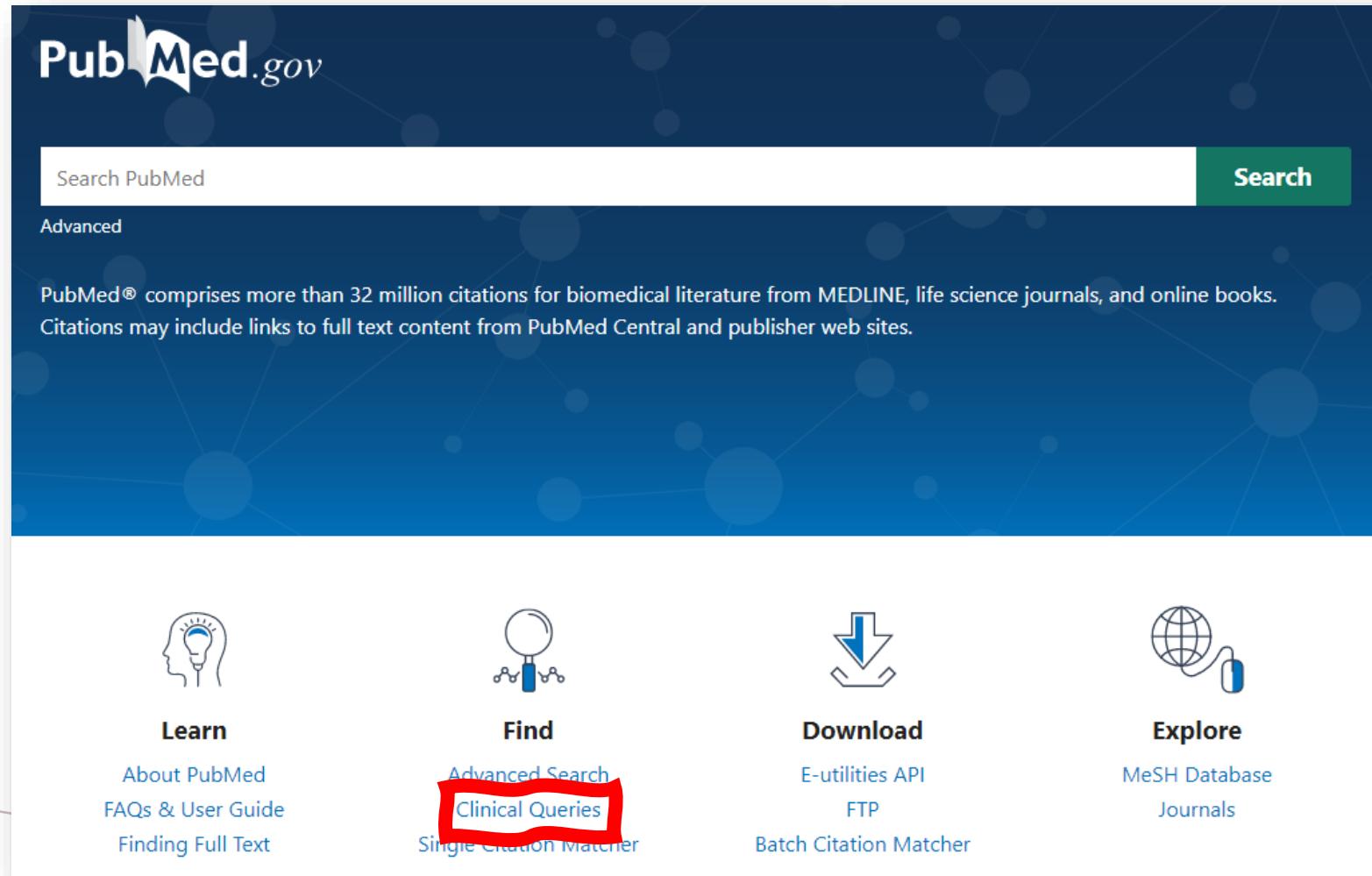
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◀ Appendices

特定の検索目的に特化



PubMed Clinical Queries

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rheumatoid arthritis

X

Search

COVID-19 Articles

Category:

Treatment

5 of 291 results

[Frequency of Vitamin D Deficiency in Patients of Asthma.](#)

Alvi S, et al. Cureus. 2021. PMID: 34104581 [Free PMC article.](#)

[Modified lung ultrasound scoring system to evaluate the feasibility of pregnant women with COVID-19 pneumonia.](#)

Zhang Y, et al. J Matern Fetal Neonatal Med. 2021. PMID: 34096434

[Patient Preference for Treatment Mode of Biologics in Rheumatoid Arthritis: A 2020 Web-based Survey in Japan.](#)

Kishimoto M, et al. Rheumatol Ther. 2021. PMID: 34089509

[Free PMC article.](#)

[Impact of the COVID-19 pandemic on rheumatology nursing consultation.](#)

Fernández Sánchez SP, et al. Reumatol Clin (Engl Ed). 2021.

PMID: 34088653 [Free PMC article.](#)

Clinical Study Categories

Category:

Therapy

Scope:

Broad

5 of 53,261 results

[Zhuifeng Tougu capsules improve rheumatoid arthritis symptoms in rats by regulating the toll-like receptor 2/4-nuclear factor kappa-B signaling pathway.](#)

Gong H, et al. J Tradit Chin Med. 2021. PMID: 34114403

[Identification and Evaluation of Serum Protein Biomarkers Which Differentiate Psoriatic from Rheumatoid Arthritis.](#)

Mc Ardle A, et al. Arthritis Rheumatol. 2021. PMID: 34114357

[Traditional Chinese Medicine Qingre Huoxue Treatment vs. the Combination of Methotrexate and Hydroxychloroquine for Active Rheumatoid Arthritis: A Multicenter, Double-Blind, Randomized Controlled Trial.](#)

Gong X, et al. Front Pharmacol. 2021. PMID: 34113254

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Download MeSH Data

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Medical Subject Headings (MeSH) is a hierarchically-organized terminology for indexing and cataloging of biomedical information. It is used for the indexing of PubMed and other NLM databases. Please see the [Terms and Conditions](#) for more information regarding the use and re-use of MeSH.



XML Format

[Current Production Year MeSH](#)

[Archive of Prior Production Year MeSH](#)

ASCII Format

[Current Production Year MeSH](#)

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MARC 21 Format

[Current Production Year MeSH](#)

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RDF Format

[Current Production Year MeSH](#)

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NLM produces Medical Subject Headings XML, ASCII, MARC 21 and RDF formats. These records can be searched either via the [MeSH Browser](#) or the [MeSH Entrez Database](#). Updates to the data files are made according to the following schedule:

MeSH XML

MeSH Descriptor files updated annually

MeSH Qualifier files updated annually

MeSH Supplemental Concept Records (SCR) updated daily (Monday - Friday)

MeSH ASCII

MeSH Descriptor files updated annually

MeSH Qualifier files updated annually

MeSH Supplemental Concept Records (SCR) updated daily (Monday - Friday)

MeSH MARC21

All files posted monthly

MeSH RDF

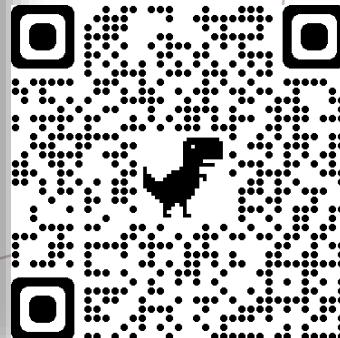
All files posted daily (Monday - Friday)

NLM MeSH Data News

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Medical Subject Headings RDF

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Medical Subject Headings (MeSH) RDF is a linked data representation of the MeSH biomedical vocabulary produced by the National Library of Medicine. MeSH RDF includes a downloadable file in RDF N-Triples format, a SPARQL query editor, a SPARQL endpoint (API), and a RESTful interface for retrieving MeSH data.

MeSH RDF supports the following use cases:

- Look up terms in the MeSH vocabulary. Example: Find all MeSH Descriptors and Concepts with "infection" in the name.
- Get data for a particular MeSH identifier. Example: This URL will provide json data for the Descriptor for Ofloxacin:
<https://id.nlm.nih.gov/mesh/D015242.json>
- Find any assertion in the MeSH vocabulary. Example: Get all of the pharmacological actions for a given substance.
- Download any subset of the MeSH vocabulary using SPARQL. Example: Get all descriptor labels and identifiers.
- Find all the allowable qualifiers for a MeSH Descriptor. Example: Find all the allowable qualifiers for Infection Control.
- Get all entry terms for a MeSH Descriptor. Examples:
 - Get entry terms for Ofloxacin via SPARQL API
 - Get entry terms for Ofloxacin via the Lookup API
- Get definitions for a MeSH Concept. Example: Get definitions for Bicuspid.
- Get all descendants of a MeSH Descriptor. Example: Get all MeSH Descriptors that fall under Neoplasms.
- Download all MeSH RDF triples in one file.

To provide feedback, please visit us on [GitHub](#).

MeSH RDF Resources

Download

Download MeSH in RDF N-Triples format (mesh.nt.gz).

SPARQL Query Editor

Query MeSH using SPARQL. See our sample queries.

API

Retrieve RDF URIs for specific MeSH descriptors or request data for specific MeSH identifiers.

Lookup

Retrieve RDF URIs for specific MeSH descriptors.

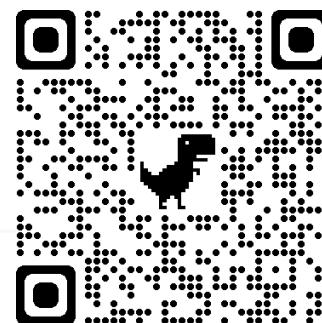
Documentation

Documentation includes sample queries, MeSH data model diagrams and more.

Support

Visit our GitHub repository and submit an issue or contact [NLM Customer Support](#).

<https://id.nlm.nih.gov/mesh/>



Version 1.1.9

Sample Queries

Select from a query below

Select from a query below

Retrieve a list of descriptors that are no longer active in current MeSH and when they were last active.

Retrieve a list of predicates in MeSH RDF

Retrieve all meshv classes in MeSH RDF

Find triples with 'Ofloxacin' as the object

Find the MeSH headings and labels of Pharmacological Actions for 'Ofloxacin'

Descriptors and SCRs that have the Pharmacological Action 'Anti-Bacterial Agents'

Find all active MeSH descriptors with an allowable qualifier of 'adverse effects'

Find all MeSH descriptors that are ancestors of MeSH descriptor D005138 'Eyebrow'

Find all MeSH descriptors that are descendants of MeSH descriptor D009369 'Neoplasm'

Retrieve all MeSH descriptors or concepts with 'infection' anywhere in its name

Find all MeSH Descriptors created for 2018 MeSH that are treed under diseases.

Retrieve all terms that belong to Descriptor D009369 'Neoplasm'.

Display MeSH Qualifiers grouped by the their descriptors' base tree numbers.

```
SELECT *
FROM <http://id.nlm.nih.gov/mesh>
WHERE {
?d a meshv:Descriptor .
?d meshv:active 0 .
?d meshv:lastActiveYear ?year .
?d rdfs:label ?name

}
```

[Run This Query](#)

#2: Retrieve a list of predicates in MeSH RDF

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX owl: <http://www.w3.org/2002/07/owl#>
PREFIX meshv: <http://id.nlm.nih.gov/mesh/vocab#>
PREFIX mesh: <http://id.nlm.nih.gov/mesh/>
PREFIX mesh2015: <http://id.nlm.nih.gov/mesh/2015/>
```

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50 results per page (offset 0)

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d	year	name
mesh:D005510	2016	[OBSOLETE] Food Habits
mesh:D013749	2016	[OBSOLETE] Tetrachlorodibenzodioxin
mesh:D017055	2015	[OBSOLETE] Intensive Care
mesh:D017161	2017	[OBSOLETE] Secernentea
mesh:D019123	2015	[OBSOLETE] Health Food
mesh:D019681	2017	[OBSOLETE] Gymnosperms
mesh:D019952	2015	[OBSOLETE] Mental Disorders Diagnosed in Childhood
mesh:D026322	2015	[OBSOLETE] Black Pepper
mesh:D027881	2016	[OBSOLETE] Agavaceae
mesh:D028525	2018	[OBSOLETE] Apium graveolens
mesh:D029067	2015	[OBSOLETE] Asclepiadaceae
mesh:D029591	2018	[OBSOLETE] Myrsinaceae
mesh:D029629	2018	[OBSOLETE] Salicaceae
mesh:D029643	2018	[OBSOLETE] Sterculiaceae
mesh:D039361	2016	[OBSOLETE] Genetic Processes
mesh:D043702	2016	[OBSOLETE] Musculoskeletal Physiological Processes
mesh:D043723	2016	[OBSOLETE] Ocular Physiological Processes
mesh:D044703	2016	[OBSOLETE] Respiratory Physiological Processes
mesh:D045123	2016	[OBSOLETE] Blood Physiological Processes
mesh:D045125	2016	[OBSOLETE] Cardiovascular Physiological Processes
mesh:D000071817	2017	[OBSOLETE] Endamoeba histolytica
mesh:D000071823	2018	[OBSOLETE] Emergency Police Dispatcher
mesh:D014712	2015	[OBSOLETE] Vertebrate Viruses
mesh:D029885	2016	[OBSOLETE] Lotus

PubMed検索の注意

- ・大文字・小文字の違いはない
- ・複合語の検索は二重引用符(")で囲むことで可能
 - ・PubMed内の辞書にない場合は挙動が変わる
- ・最新の文献およびPubMedのみに含まれる文献はMeSHタームでは検索できない
 - ・人手により付けられており時間がかかるため
 - ・平均すると、2から3か月程度
 - ・MeSHタームはMEDLINEに書誌情報が収められる文献が対象
PubMed検索対象はMEDLINE + a

<https://pubmed.ncbi.nlm.nih.gov/help/#searching-for-a-phrase>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5392968/>

Search	Actions	Details	Query	Results	Time
#6	...	!	Search: "using linked open"[tiab] "using linked open"[tiab]	0	05:26:43
			! Warnings "using linked open" [tiab] Quoted phrase not found: using linked open		
#5	...	▼	Search: "using linked open"[tiab] - Articles found by alternative search 32780736[UID]	1	05:26:43

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Add terms to the query box

All Fields

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- [linked open \(102\)](#)
 - [linked open data \(70\)](#)
 - [linked open data principles \(3\)](#)
 - [linked open database \(2\)](#)
 - [linked open reading \(13\)](#)

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Query box

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PubMed Advanced Search Builder

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All Fields ▼

using linked open X

using liquid (2)

using liquid chromatography (2)

using liquid chromatography tandem (2)

using liquid chromatography tandem mass (2)

using liquid chromatography tandem mass spectrometry (2)

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Epub 2014 May 27.

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Abdelhak Djouadi ¹

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PMID: 25814886 PMCID: PMC4371076 DOI: 10.1140/epjc/s10052-013-2704-3

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Abstract

The implications of the discovery of the Higgs boson at the LHC with a mass of approximately 125 GeV are summarised in the context of the minimal supersymmetric extension of the Standard Model, the MSSM. Discussed are the implications from the measured mass and production/decay rates of the observed particle and from the constraints in the search for the heavier Higgs states at the LHC.

Figures

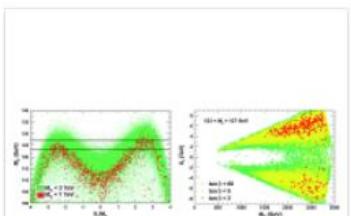


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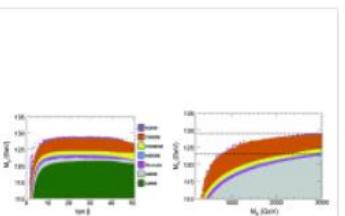


Fig. 2 The maximal value of the...

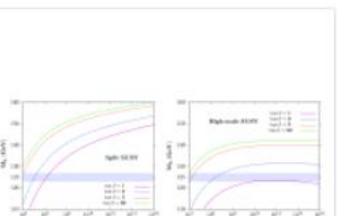


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TI - Implications of the Higgs discovery for the MSSM.

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FAU - Djouadi, Abdelhak

AU - Djouadi A

AD - Laboratoire de Physique Théorique, U. Paris-Sud and CNRS, 91405 Orsay, France ; TH Unit, CERN, Geneva, Switzerland.

LA - eng

PT - Review

DEP - 20140527

TA - Eur Phys J C Part Fields

JT - The European physical journal. C, Particles and fields

JID - 101622319

PMC - PMC4371076

EDAT- 2014/01/01 00:00

MHDA- 2014/01/01 00:01

CRDT- 2015/03/28 06:00

PHST- 2013/11/20 00:00 [received]

PHST- 2013/11/27 00:00 [accepted]

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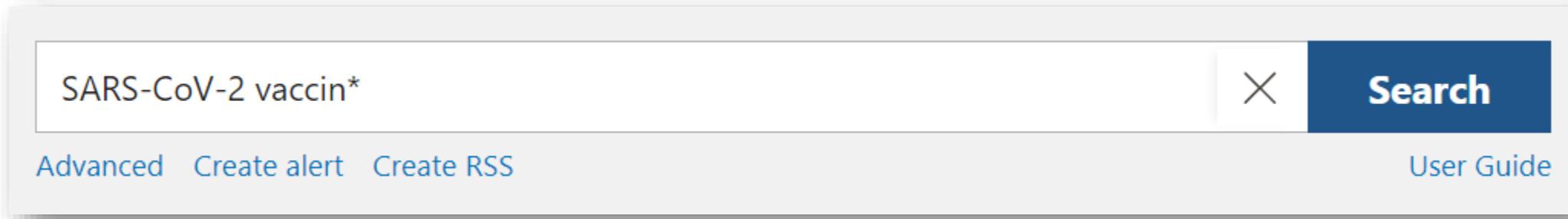
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SO - Eur Phys J C Part Fields. 2014;74(5):2704. doi: 10.1140/epjc/s10052-013-2704-3. Epub 2014 May 27.

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Nat Rev Microbiol. 2020 Oct 28 : 1–16.

doi: [10.1038/s41579-020-00468-6](https://doi.org/10.1038/s41579-020-00468-6) [Epub ahead of print]

PMCID: PMC7592455

PMID: [33116300](#)

Coronavirus biology and replication: implications for SARS-CoV-2

Philip V'kovski,^{1,2} Annika Kratzel,^{1,2,3} Silvio Steiner,^{1,2,3} Hanspeter Stalder,^{1,2} and Volker Thiel^{1,2}

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The SARS-CoV-2 Infection Cycle: A Survey of Viral Membrane Proteins, Their Functional Interacti [Int J Mol Sci. 2021]

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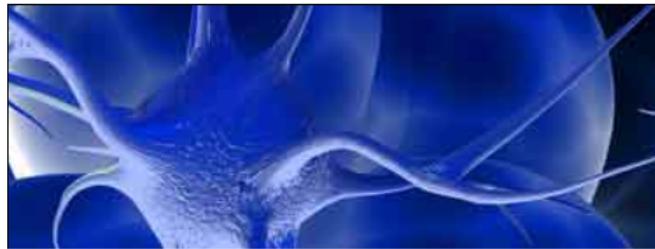
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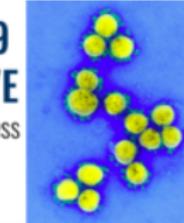
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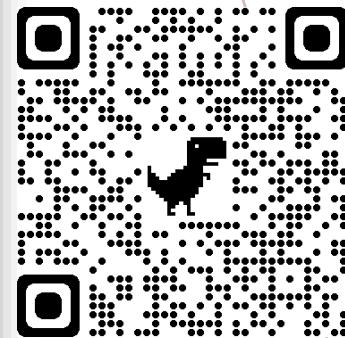
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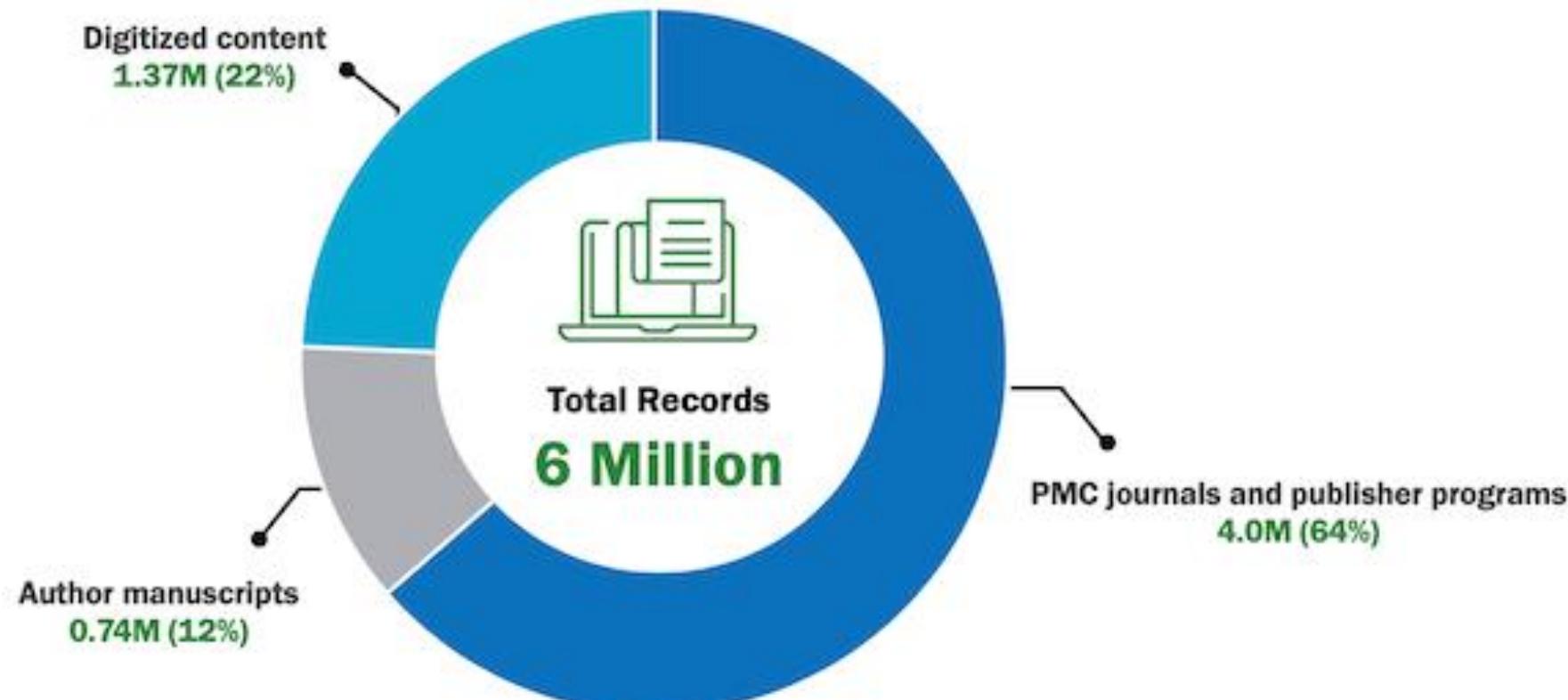


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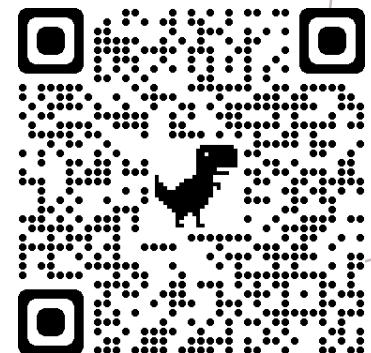
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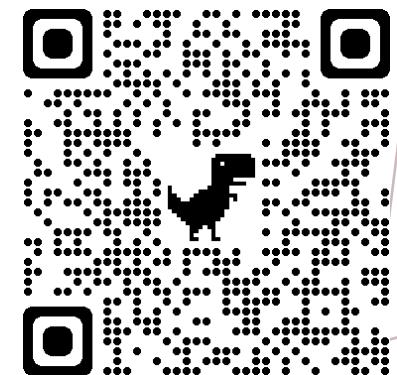
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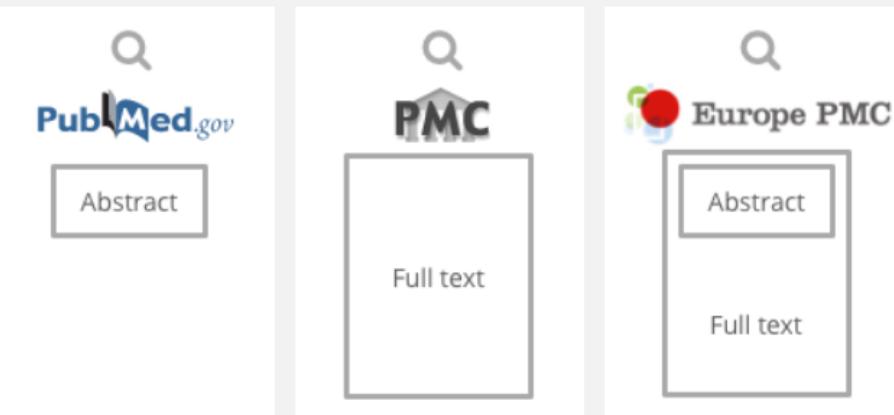
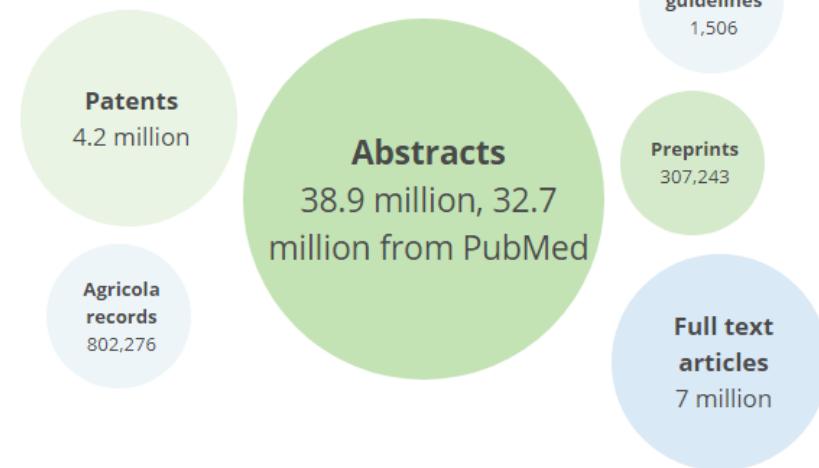
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Farajallah HM, AlSuwaidi SK, AlSuwaidi SM, AlAli GA, AlZubaidi AS, Carrick FR, Abdulrahman M

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microtubule OR glycosylated	大文字ORで結ぶと、いずれかの検索語を含む文献を検索。
(fish OR bird) AND disease	かっこを利用して、検索条件を明確化。Fishまたはbirdを含み、かつ、diseaseも含む。かっこがないと、ANDが先に評価される。
microtub* disease	検索語の直後に * で、その語を語幹とする語がすべてORで結ばれる。
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green grass か 'green grass'	シングルクオートは、それが無いのと同じで、AND検索。

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Hum Genomics. 2020; 14: 40.
Published online 2020 Oct 22.
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PMCID: PMC7578581
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Human genetic factors associated with susceptibility to SARS-CoV-2 infection and COVID-19 disease severity

Cleo Anastassopoulou,¹ Zoi Gkizarioti,² George P. Patrinos,^{2,3,4} and Athanasios Tsakris¹

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Abstract

Abstract

Background

The emergence of the novel coronavirus in Wuhan, Hubei Province, China, in December 2019 marked the synchronization of the world to a peculiar clock that is counting infected cases and deaths instead of hours and minutes. The pandemic, highly transmissible severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has indeed caused considerable morbidity and mortality and drastically changed our everyday lives. As we continue to become acquainted with the seventh coronavirus known to infect our species, a number of its characteristics keep surprising us. Among those is the wide spectrum of clinical manifestations of the resulting coronavirus disease 2019 (COVID-19), which ranges from asymptomatic or mildly symptomatic infections to severe pneumonia, respiratory failure, and death.

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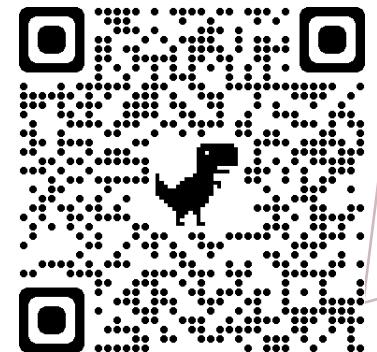
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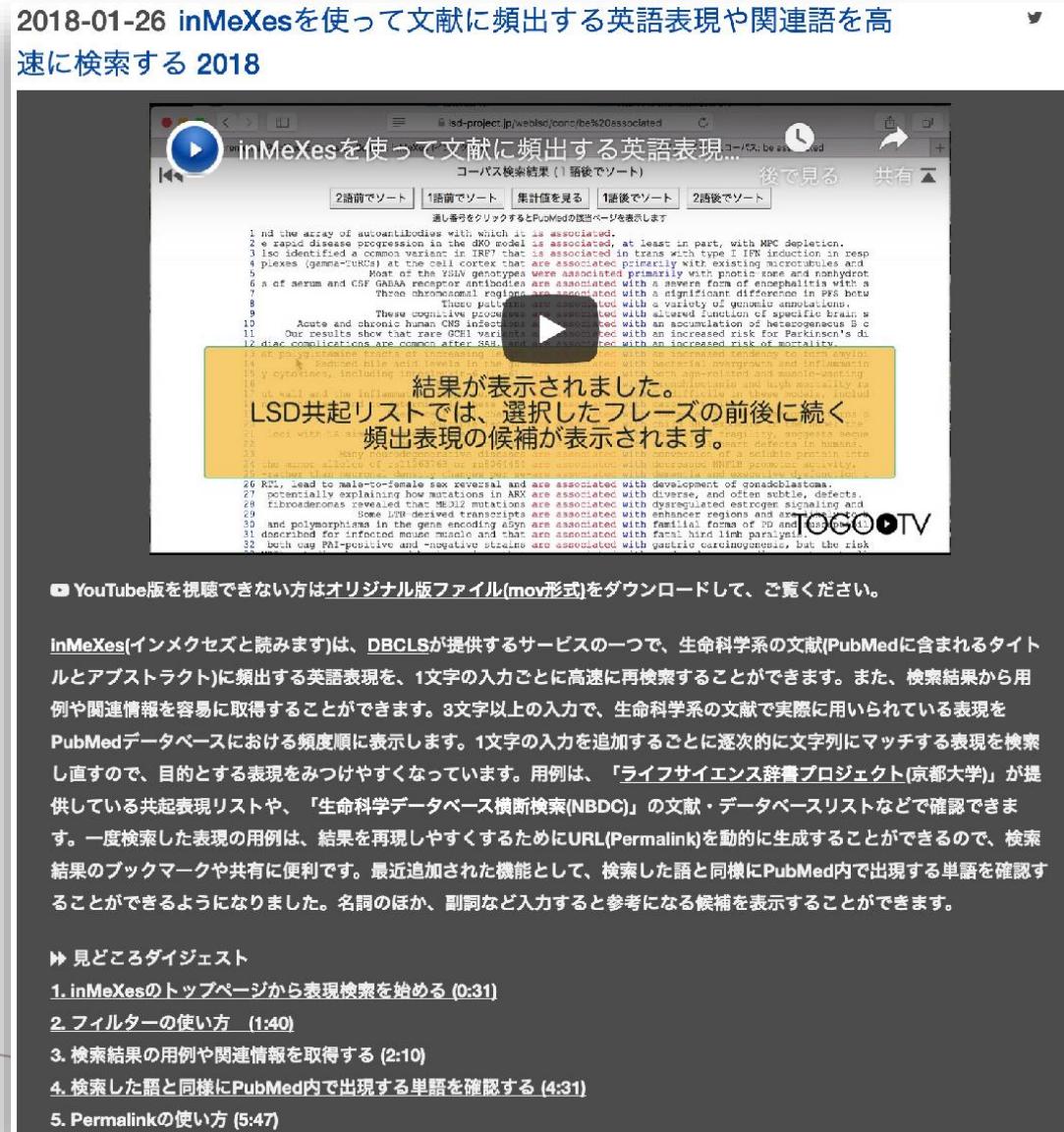


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2 e rapid disease progression in the DMD model is associated, at least in part, with NMN depletion.
3 The identified autoantibodies against the RPTP γ protein transients in type I IFN induction in response to viruses (Gamma-1IFN) at the cell cortex that are associated primarily with existing microtubules and microtubule-associated proteins.
4 Most of the YSIV genotypes were associated primarily with protein zone and nonhydrostatic protein zones.
5 a of serum and CSF GABA receptor antibodies are associated with a severe form of encephalitis with a history of seizures and progressive cognitive decline, often with a history of fever and headache.
6 These antibodies are associated with a variety of gamma-aminobutyric acid (GABA) receptor subtypes.
7 The cognitive processes are associated with altered function of specific brain areas.
8 Acute and chronic human CNS infections are associated with an association of heterogeneous B cell populations.
9 Our results show that rare X-linked recessive mutations are associated with an increased risk for Parkinson's disease complications are associated after SLE, and are associated with an increased risk of mortality.
10 At present, no treatment is available for the prevention and treatment of the disease.
11 Many mutations in the human genome are associated with expression of a serine protein kinase.
12 The unique addition of the gene encoding the protein kinase C α (PKC α) with downstream RNF119 protein activity.
13 PKC α lead to male-to-female sex reversal and are associated with development of gonadoblastoma.
14 potentially explaining how mutations in ARX are associated with diverse, and often subtle, defects.
15 fibroblast cultures revealed that these mutations are associated with dysregulated intracellular signaling and gene expression.
16 Some of these mutations are associated with specific regions and are associated with different phenotypes.
17 and polymorphisms in the gene encoding Alyn are associated with familial forms of PD and Lewy bodies.
18 described for infected mouse muscle and are associated with fatal hind limb paralysis.
19 both cat Phi-positive and -negative strains are associated with gastric carcinogenesis, but the risk

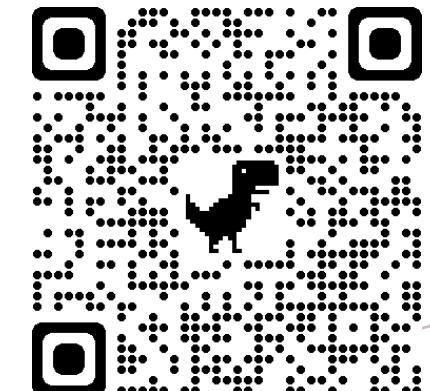
結果が表示されました。
LSD共起リストでは、選択したフレーズの前後に続く
頻出表現の候補が表示されます。

□ 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)

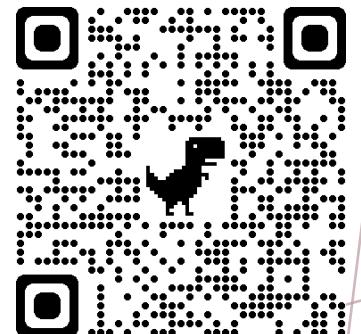


<https://togotv.dbcls.jp/20180126.html>

Allie (アリー) 文献で使われる略語の情報を検索



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



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



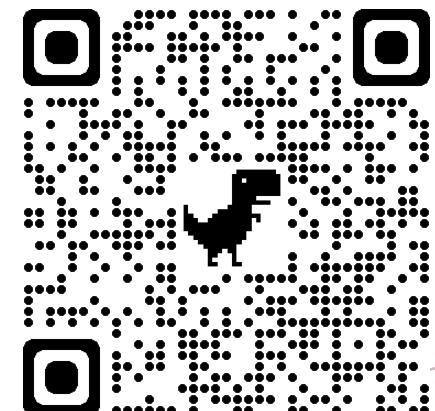
■ YouTube版を視聴できない方はオリジナル版ファイル(mov形式)をダウンロードして、ご覧ください。

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)

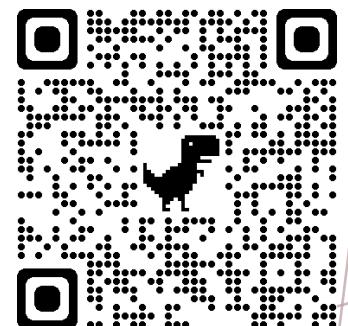


<http://tgotv.dbcls.jp/20171025.html>

Colil (コリル) 引用文献に関する情報を検索



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



動画チュートリアル(統合TV)

2015-02-07 Colilを使って論文の引用情報を検索する

The screenshot shows the Colil Data Portal interface. At the top, there's a search bar with the text "Colilを使って論文の引用情報を検索する" and a play button icon. Below the search bar, there's a message about authors' comments and a link to the paper's PubMed page. The main area displays a list of references, each with a PMID, title, and a brief abstract. A red box highlights the first few entries in the list.

Colilを使って論文の引用情報を検索する
Authors' Comment What 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

引用記述を含むセクション名を閲覧できます。

16949332 Unraveling the transcriptional network underlying ES cell reprogramming.
PubMed PMC cellular Further studies will undoubtedly center 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 [1]. We can anticipate a time in which cellular reprogramming may become routine and applied in regenerative medicine.

18866418 The action behind the words: embryonic stem cell research milestones on.
PubMed PMC 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.

173959240 Frequent and specific immunity to the embryonal stem cell-associated antigen SOX2 in patients with monoclonal gammopathy.
PubMed PMC discussion 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.

173959240 Frequent and specific immunity to the embryonal stem cell-associated antigen SOX2 in patients with monoclonal gammopathy.
PubMed PMC results Expression of SOX2 is restricted to embryonal 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.

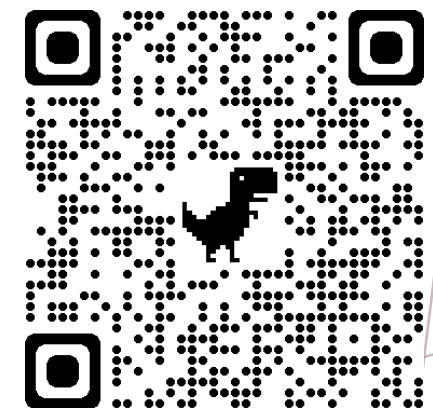
175058878 Silencing of core transcription factors in human EC cells highlights the importance of autocrine FGF signaling for self-renewal.
PubMed PMC results and discussion Klf4 has recently been implicated in reprogramming fibroblasts to an ES cell-like state, in conjunction with Oct4, Sox2, and c-Myc [28]. 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.
PubMed PMC background Traditionally thought of as a proto-oncogene, it has been recently reported that myo may be a 'stemness' gene driving rapid proliferation yet maintain multipotentiality in stem

▶ 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。

Colilは、生命科学分野の文献間の引用関係を検索・閲覧できるサービスです。ある論文について、他の論文が本文中でどのように引用し記述しているかを、効率的に調べることができます。検索例やデータの詳細については、[Colil Data Portal](#)にまとめられています。

この動画を引用する際はDOIをご利用ください。 DOI: [10.7875/togotv.2015.015](https://doi.org/10.7875/togotv.2015.015)



<http://togotv.dbcls.jp/20150207.html>

Questions?

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