
文献情報を利用したサービスの活用

ライフサイエンス統合データベースセンター
山本 泰智 (@yayamamo)



PubMed最新情報

The screenshot shows a web browser window for the NLM Technical Bulletin. The page header includes the NLM logo and the text "YOUR SOURCE FOR THE LATEST SEARCHING INFORMATION". A search bar at the top right contains the placeholder "Search here for NLM Technical Bulletin articles". Below the header, a navigation menu offers links to "Current Issue", "Previous Issues", "About", "Stay Current" (with a feed icon), and a "Table of Contents: 2016 MAY-JUNE No. 410". The main content area features a bold heading "PubMed Celebrates its 20th Anniversary!" followed by a brief summary and the date "2016 June 21 [posted]". The text discusses the history of PubMed, mentioning its release in 1996, the removal of the word "experimental" from the site in 1997, and the official announcement of free MEDLINE access via PubMed at a Capitol Hill Press conference in 1997. It also highlights the evolution of the database over the years, including the introduction of various search features and mobile access.

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

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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百万

30
25
20
15
10
5
0

1,200
1,000
800
600
400
200
0

千

PubMed書誌情報件数推移



<http://www.ncbi.nlm.nih.gov/Web/Newsltr/aug97.html>

追加

1996

11,937,110
456,362

合計

1 6 11 16 21 26 31 36 41 46 51 56 61 66 71

現状

- 2800万件を超える文献情報（6/12時点で28,534,069）
- 2015年だけで1,136,851件追加（3115件/日）
- 5200件を超える学術誌
- 一日当たり、
 - 250万件の検索、160万人の利用者、830万件の書誌情報閲覧
 - モバイル端末からは、12万件超の検索、32000人の利用者、35万件閲覧
 - 近年はプログラム経由でのアクセスが増えている

https://www.nlm.nih.gov/bsd/num_titles.html
https://www.nlm.nih.gov/bsd/bsd_key.html



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PubMed検索最新情報



PubMed comprises more than 28 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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Latest Literature
New articles from highly accessed journals

- [Am J Clin Nutr \(1\)](#)
- [Cell \(9\)](#)
- [Cochrane Database Syst Rev \(3\)](#)
- [J Clin Endocrinol Metab \(3\)](#)
- [J Clin Invest \(9\)](#)
- [J Clin Oncol \(1\)](#)
- [J Nutr \(1\)](#)
- [Lancet \(2\)](#)

Trending Articles

- [Science. 2018.
Dietary fiber intervention on gut microbiota composition in healthy adults: a systematic review and meta-analysis.
Am J Clin Nutr. 2018.](#)
- [Nature. 2018.
Cellular milieu imparts distinct pathological \$\alpha\$ -synuclein strains in \$\alpha\$ -synucleinopathies.
Vitamin D Switches BAF Complexes to Protect \$\beta\$ Cells.
Cell. 2018.](#)

<http://pubmed.gov/>



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Search term



Welcome to PubMed Mobile

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Trending articles

[CRISPR-Cas9 genome editing induces a p53-mediated DNA damage response.](#)

Haapaniemi E, et al. Nat Med. 2018.

Trending articles

[CRISPR-Cas9 genome editing induces a p53-mediated DNA damage response.](#)

Haapaniemi E, et al. Nat Med. 2018.

[p53 inhibits CRISPR-Cas9 engineering in human pluripotent stem cells.](#)

Ihry RJ, et al. Nat Med. 2018.

[A Network of Noncoding Regulatory RNAs Acts in the Mammalian Brain.](#)

Kleaveland B, et al. Cell. 2018.

[Primary Prevention of Cardiovascular Disease with a Mediterranean Diet Supplemented with Extra-Virgin Olive Oil or Nuts.](#)

Estruch R, et al. N Engl J Med. 2018.

[Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinson's disease.](#)

Yun SP, et al. Nat Med. 2018.

[See all](#)

[Full website](#)

NIH NLM NCBI Help



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効率的な検索を可能にする機能

- 柔軟なフィルタ機能を検索結果ページに配置
(NLMによるチュートリアル:
<http://www.nlm.nih.gov/bsd/disted/pubmed.html>)
- 発表年による絞り込みを容易にする対話的なグラフを配置
- より詳細な条件設定を可能にするフォームを配置
- RSSを用いた最新検索結果の自動配信機能を提供

例: zika virusで検索

NCBI Resources How To Sign in to NCBI

PubMed zika virus Create RSS Create alert Advanced

Format: Summary Sort by: Most Recent Per page: 20 Send to: Filters: Manage Filters

Best matches for zika virus:

- Predicting Zika virus structural biology: Challenges and opportunities for intervention.
Cox BD et al. Antivir Chem Chemother. (2015)
- Current Zika virus epidemiology and recent epidemics.
Ios S et al. Med Mal Infect. (2014)
- Molecular evolution of Zika virus during its emergence in the 20(th) century.
Faye O et al. PLoS Negl Trop Dis. (2014)

Switch to our new best match sort order

Article types Clinical Trial Review Customize ... Text availability Abstract Free full text Full text Publication dates 5 years 10 years Custom range... Species Humans Other Animals Clear all Show additional filters

Sort by: Best match Most recent

Results by year

2016: 1,624 Download CSV

Related searches

- zika virus infection
- zika virus review
- zika virus and pregnancy
- zika virus vaccine
- zika virus brazil

PMC Images search for zika virus

様々な条件で出力

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Article types Clinical Trial Review Customize ...

Text availability Abstract Free full text Full text

Publication dates 5 years 10 years Custom range...

Species Humans Other Animals

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Best matches for zika virus:

[Predicting Zika virus structural biology: Challenges and opportunities](#)
Cox BD et al. Antivir Chem Chemother. (2015)

[Current Zika virus epidemiology and recent epidemics.](#)
Ios S et al. Med Mal Infect. (2014)

[Molecular evolution of Zika virus during its emergence in the Americas](#)
Faye O et al. PLoS Negl Trop Dis. (2014)

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Search results
Items: 1 to 20 of 4253

[Surveillance of microcephaly and selected brain anomalies in Argentina: Relationship with Zika virus and other congenital infections.](#)
1. [Zika virus and other congenital infections.](#)
Tellechea AL, Luppo V, Morales MA, Groisman B, Baricalla A, Fabbri C, Sinchi A, Alonso A, Gonzalez C, Ledesma B, Masi P, Silva M, Israilev A, Rocha M, Quaglia M, Bidondo MP, Liascovich R, Barbero P; RENAC Task Force.
Birth Defects Res. 2018 Jun 19. doi: 10.1002/bdr2.1347. [Epub ahead of print]
PMID: 29921033
[Similar articles](#)

[Differential antiviral immunity to Japanese encephalitis virus in developing cortical organoids.](#)
2. [Japanese encephalitis virus](#)
Zhang B, He Y, Xu Y, Mo F, Mi T, Shen QS, Li C, Li Y, Liu J, Wu Y, Chen G, Zhu W, Qin C, Hu B, Zhou G.
Cell Death Dis. 2018 Jun 18;9(7):719. doi: 10.1038/s41419-018-0763-y.
PMID: 29915260
[Similar articles](#)

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 Collections E-mail
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 CSV

Send to: Filters: Manage Filters

Most recent

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Related searches

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zika virus review
zika virus and pregnancy
zika virus vaccine
zika virus brazil

PMC Images search for zika virus

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関連データを検索

- [Similar articles](#)
- [Detection of Zika virus in urine.](#)
7. Gourinat AC, O'Connor O, Calvez E, Goarant C, Dupont-Rouzeiro M. *Emerg Infect Dis.* 2015 Jan;21(1):84-6. doi: 10.3201/eid2101.140894.
PMID: 25530324 [Free PMC Article](#)
[Similar articles](#)
- [Zika virus in Gabon \(Central Africa\)--2007: a new threat from Aedes albopictus?](#)
8. Grard G, Caron M, Mombo IM, Nkoghe D, Mboui Ondo S, Jiolle D, Fontenille D, Paupy C, Leroy EM. *PLoS Negl Trop Dis.* 2014 Feb 6;8(2):e2681. doi: 10.1371/journal.pntd.0002681. eCollection 2014 Feb.
PMID: 24516683 [Free PMC Article](#)
[Similar articles](#)
- [Potential for Zika virus transmission through blood transfusion demonstrated during an outbreak in French Polynesia, November 2013 to February 2014.](#)
9. Musso D, Nhan T, Robin E, Roche C, Bierlaire D, Zisou K, Shan Yan A, Cao-Lormeau VM, Broutet J. *Euro Surveill.* 2014 Apr 10;19(14). pii: 20761. Erratum in: *Euro Surveill.* 2014;19(15):pii/20771.
PMID: 24739982 [Free Article](#)
[Similar articles](#)
- [First report of autochthonous transmission of Zika virus in Brazil.](#)
10. Zanluca C, Melo VC, Mosimann AL, Santos GI, Santos CN, Luz K. *Mem Inst Oswaldo Cruz.* 2015 Jun;110(4):569-72. doi: 10.1590/0074-02760150192. Epub 2015 Jun 9.
PMID: 26061233 [Free PMC Article](#)
[Similar articles](#)
- [Rapid spread of emerging Zika virus in the Pacific area.](#)
11. Musso D, Nilles EJ, Cao-Lormeau VM. *Clin Microbiol Infect.* 2014 Oct;20(10):O595-6. doi: 10.1111/1469-0691.12707. Epub 2014 Aug 4. No abstract available.
PMID: 24909208 [Free Article](#)
[Similar articles](#)

The screenshot shows the NCBI Clinical Trials search results for the term "zika virus". A red box highlights the "Titles with your search terms" section, which lists three clinical trial titles. A large black arrow points from the right side of the screen towards this highlighted area. To the right of the search results is a sidebar titled "Find related data" with a dropdown menu set to "ClinVar". Other options in the dropdown include "Select", "Assembly", "BioProject", "BioSample", "BioSystems", "Books", "Conserved Domains", "dbGaP", "dbVar", "EST", "Gene", "Genome", "GEO DataSets", "GEO Profiles", "GSS", "HomoloGene", "MedGen", "Nucleotide", and "OMIM". Below the search results, sections for "Best match search information" and "Recent Activity" are visible.

Sort by Best Match

NCBI Resources How To Sign in to NCBI

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

PubMed zika virus Create RSS Create alert Advanced Help

Article types Clinical Trial Review Customize ...

Text availability Abstract Free full text Full text

Publication dates 5 years 10 years Custom range...

Species Humans Other Animals

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Format: Summary Sort by: Best Match Per page: 20 Send to: Filters: Manage Filters

Sort by:

- Most Recent
- Best Match
- Publication Date
- First Author
- Last Author
- Journal
- Title

Items: 1 to 20 << First < Prev Page 1 of 217 Next > Last >

1. Cox BD, Sall AA, Zanotto PM, et al. Zika virus: challenges and opportunities for intervention. *Antivir Chem Resist*. 2016 Jun;27:101-10. doi: 10.1177/2040206616653873. Epub 2016 Jun 13. PMID: 27296393 [Free PMC Article](#) [Similar articles](#)

2. Ios S, Mallet HP, Leparc Goffart I, Gauthier V, Cardoso T, Herida M. *Med Mal Infect*. 2014 Jul;44(7):302-7. doi: 10.1016/j.medmal.2014.04.008. Epub 2014 Jul 4. PMID: 25001879 [Similar articles](#)

3. Faye O, Freire CC, Iamarino A, Faye O, de Oliveira JV, Diallo M, Zanotto PM, Sall AA. *PLoS Negl Trop Dis*. 2014 Jan 9;8(1):e2636. doi: 10.1371/journal.pntd.0002636. eCollection 2014. PMID: 24421913 [Free PMC Article](#) [Similar articles](#)

4. [No authors listed] *Emerg Infect Dis*. 2014 Jun;20(6):1090. No abstract available. PMID: 24983096 [Free PMC Article](#) [Similar articles](#)

5. Cao-Lormeau VM, Roche C, Teissier A, Robin E, Berry AL, Mallet HP, Sall AA, Musso D. *Emerg Infect Dis*. 2014 Jun;20(6):1085-6. doi: 10.3201/eid2006.140138. No abstract available. PMID: 24856001 [Free PMC Article](#) [Similar articles](#)

Sort by: Best match Most recent

Results by year Download CSV

Related searches zika virus infection zika virus review zika virus and pregnancy zika virus vaccine zika virus brazil

PMC Images search for zika virus

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個々の文献情報に対する付加情報

Format: Abstract ▾ Send to ▾

[Antivir Chem Chemother. 2015 Aug;24\(3-4\):118-26. doi: 10.1177/2040206616653873. Epub 2016 Jun 13.](#)

Predicting Zika virus structural biology: Challenges and opportunities for intervention.

Cox BD¹, Stanton RA¹, Schinazi RF².

Author information

Abstract

BACKGROUND: Zika virus is an emerging crisis as infection is implicated in severe neurological disorders-Guillain-Barré syndrome and fetal microcephaly. There are currently no treatment options available for Zika virus infection. This virus is part of the flavivirus genus and closely related to Dengue Fever Virus, West Nile Virus, and Japanese Encephalitis Virus. Like other flaviviruses, the Zika virus genome encodes three structural proteins (capsid, precursor membrane, and envelope) and seven nonstructural proteins (NS1, NS2A, NS2B, NS3, NS4A, NS4B, and NS5). Currently, no structural information exists on these viral proteins to facilitate vaccine design and rational drug discovery.

METHODS: Structures for all Zika virus viral proteins were predicted using experimental templates available from closely related viruses using the online SwissModel server. These homology models were compared to drug targets from other viruses using Visual Molecular Dynamics Multiseq software. Sequential alignment of all Zika virus polyproteins was performed using Clustal Omega to identify mutations in specific viral proteins implicated in pathogenesis.

RESULTS: The precursor membrane, envelope, and NS1 proteins are unique to Zika virus highlighting possible challenges in vaccine design. Sequential differences between Zika virus strains occur at critical positions on precursor membrane, envelope, NS2A, NS3, NS4B, and NS5 as potential loci for differential pathogenesis. Druggable pockets in Dengue Fever Virus and West Nile Virus NS3 and NS5 are retained in predicted Zika virus structures.

CONCLUSIONS: Lead candidates for Zika virus can likely be established using NS3 and NS5 inhibitors from other flaviviruses, and the structures presented can provide opportunities for Zika virus intervention strategies.

© The Author(s) 2016.

KEYWORDS: Zika virus; drug discovery; flavivirus; homology modeling; vaccine design

PMID: 27296393 PMID: PMC5890524 DOI: 10.1177/2040206616653873

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MeSH terms, Substance

LinkOut - more resources

Full text links

SAGE journals  PMC Full text 

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Characterization of the Zika virus two-component NS2B-NS3 [Antiviral Res. 2017]

Profiling of viral proteins expressed from the genomic RNA of Japanese [PLoS One. 2015]

Review Dengue Virus Non-Structural Protein 5. [Viruses. 2017]

Nucleotide sequence of the genome and complete amino acid sequen [Virology. 1990]

Review Lipids and flaviviruses, present and future perspectives for [Prog Lipid Res. 2016]

See reviews... See all...

Cited by 13 PubMed Central articles

Review Probing Molecular Insights into Zika Virus-Host Interactions. [Viruses. 2018]

Review Zika Virus: An Emerging Global Health Threat [Front Cell Infect Microbiol. 2017]

Neurological Implications of Zika Virus Infection in Adults. [J Infect Dis. 2017]

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Articles frequently viewed together

Gene (nucleotide/PMC)

References for this PMC Article

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KEYWORDS: Zika virus; drug discovery; flavivirus; homology modeling; vaccine design

PMID: 27296393 PMCID: [PMC5890524](#) DOI: [10.1177/2040206616653873](https://doi.org/10.1177/2040206616653873)

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操作履歴の閲覧と再実行

Links from PubMed

Items: 1 to 20 of 174

<< First < Prev Page 1 of 9 Next > Last >>

- [Bioinformatic analysis reveals the expression of unique transcriptomic signatures in Zika virus infected human neural stem cells.](#)

1. Rolfe AJ, Bosco DB, Wang J, Nowakowski RS, Fan J, Ren Y.
Cell Biosci. 2016 Jun 10;6:42. doi: 10.1186/s13578-016-0110-x. eCollection 2016.
PMID: 27293547 [Free PMC Article](#)

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- [Neural stem cells attacked by Zika virus.](#)

2. Nguyen HN, Qian X, Song H, Ming GL.
Cell Res. 2016 Jul;26(7):753-4. doi: 10.1038/cr.2016.68. Epub 2016 Jun 10.
PMID: 27283801 [Free PMC Article](#)

[Similar articles](#)

- [Nucleotide composition of the Zika virus RNA genome and its codon usage.](#)

3. van Hemert F, Berkhout B.
Virol J. 2016 Jun 8;13:95. doi: 10.1186/s12985-016-0551-1.
PMID: 27278486 [Free PMC Article](#)

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- [Clinical and laboratory profile of Zika virus infection in dengue suspected patients: A case series.](#)

Fernanda Estofolete C, Terzian AC, Parreira R, Esteves A, Hardman L, Greque GV, Rahal P, Nogueira ML.
J Clin Virol. 2016 Aug;81:25-30. doi: 10.1016/j.jcv.2016.05.012. Epub 2016 May 27.
PMID: 27289428
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- Predicting Zika virus structural biology: Challenges and opportunities for [PubMed](#)

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Data Filters in PMC and PubMed

Data Filters in PMC and PubMed. NLM Tech Bull. 2018 Mar-Apr;(421):b8.

2018 April 24 [posted]

[Editor's Note: This is a reprint of an announcement from the National Center for Biotechnology Information (NCBI). To automatically receive the latest news and announcements regarding major changes and updates to PubMed Central (PMC), please see the subscribe page.]

Looking for journal articles with associated data sets? New search filters in in [PubMed Central](#) (PMC) and [PubMed](#) aim to increase the discoverability of articles and citations with associated data information.

PubMed Central
Users can now search on or append searches with filters to discover articles with specific types of associated data.

1. Use [has suppdata\[filter\]](#) to find articles with associated supplementary material.
2. Use [has data avail\[filter\]](#) to find articles that include a data availability or data accessibility statement.
3. Use [has data citations\[filter\]](#) to find articles that include data citation(s).

Alternatively, use [has associated data\[filter\]](#) to find all articles with any type of data section described above.

PubMed
Users can search on or append searches with [data\[filter\]](#) to find citations with related data links in either the Secondary Source ID field or the LinkOut – Other Literature Resources field (both located below the abstract). These data links may be to records in other NLM databases (e.g., GenBank) or external data repositories (e.g., figshare, Dryad).

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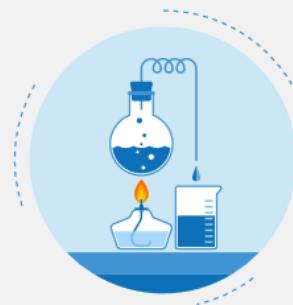


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PubMed Labs is a test site where we are *experimenting* with new features and tools that eventually may be incorporated in PubMed, in their current or a revised form based on the input we receive. Please try the site and [let us know](#) what you think.



Highlights of PubMed Labs

Feedback



Search

Filters

Timeline

Sort by

Best match

Most recent



51 results

Mining Electronic Health Records using **Linked Data**.

Odgers DJ and Dumontier M. AMIA Jt Summits Transl Sci Proc 2015.

In order to realize the potential of using these **data** for translational research, clinical **data** warehouses must be interoperable with standardized health terminologies, biomedical ontologies, and growing networks of **Linked Open Data** such as Bio2RDF. ...This work is significant in that it demonstrates the feasibility of using semantic web technologies to directly exploit existing biomedical ontologies and **Linked Open Data**....

The EBI RDF platform: **linked open data** for the life sciences.

Jupp S, et al. Bioinformatics 2014.

MOTIVATION: Resource description framework (RDF) is an emerging technology for describing, publishing and linking life science **data**. As a major provider of bioinformatics **data** and services, the European Bioinformatics Institute (EBI) is committed to making **data** readily accessible to the community in ways that meet existing demand.

...

Ontology-Based Querying with Bio2RDF's **Linked Open Data**.

Callahan A, et al. J Biomed Semantics 2013.

CONCLUSIONS: This coordinated release marks an important milestone for the Bio2RDF **open** source **linked data** framework. Principally, it improves the quality of **linked data** in the Bio2RDF network and makes it easier to access or recreate the **linked data** locally. We hope to continue improving the Bio2RDF network of **linked data** by identifying priority databases and increasing the vocabulary coverage to additional dataset vocabularies beyond SIO....

Feedback

Towards **linked open** gene mutations **data**

MeSHタームを利用していますか？

KEYWORDS: Easter Island; Outbreak; South Pacific; ZIKV; Zika virus

PMID: 26611910 DOI: [10.1007/s00705-015-2695-5](https://doi.org/10.1007/s00705-015-2695-5)

[Indexed for MEDLINE]



Publication type, MeSH terms, Substance

Publication type

[Research Support, Non-U.S. Gov't](#)

MeSH terms

[Cluster Analysis](#)
[Disease Outbreaks*](#)
[Humans](#)
[Molecular Epidemiology](#)
[Phylogeny](#)
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[RNA, Viral/genetics](#)
[Reverse Transcriptase Polymerase Chain Reaction](#)
[Sequence Analysis, DNA](#)
[Sequence Homology](#)
[Zika Virus/classification](#)
[Zika Virus/genetics](#)
[Zika Virus/isolation & purification*](#)
[Zika Virus Infection/epidemiology*](#)

Zika Virus/isolation & purification*
Zika Virus Infection/epidemiology*



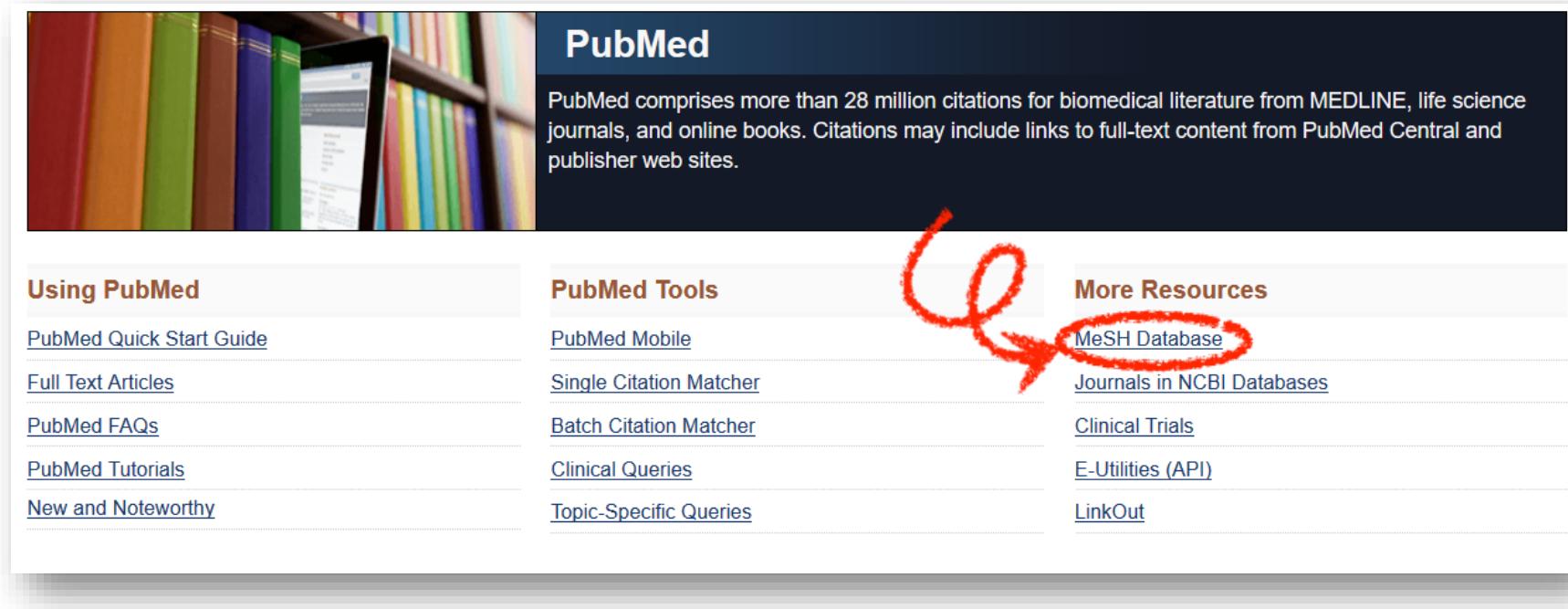
Substance

[RNA, Viral](#)

MeSH (Medical Subject Headings) ターム

- 概念階層関係を持つ統制語彙 (語彙数は約2万9千) で毎年更新される
- MEDLINE収録の全文献に対しNational Library of Medicine (NLM) の約100人の専門スタッフがMeSHタームを用いた注釈付けを行う
- 全員が生命科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
- 去年からセマンティックウェブにおけるデータ表現、RDFによる配布も始まる

MeSHデータベースを利用したPubMed検索



The screenshot shows the PubMed homepage. At the top left is a photograph of a bookshelf filled with colorful books. To the right of the image is the word "PubMed" in white. Below it is a brief description: "PubMed comprises more than 28 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." On the left side, there's a sidebar with links like "Using PubMed", "PubMed Quick Start Guide", "Full Text Articles", "PubMed FAQs", "PubMed Tutorials", and "New and Noteworthy". In the center, under "PubMed Tools", are links for "PubMed Mobile", "Single Citation Matcher", "Batch Citation Matcher", "Clinical Queries", and "Topic-Specific Queries". On the right, under "More Resources", are links for "MeSH Database", "Journals in NCBI Databases", "Clinical Trials", "E-Utilities (API)", and "LinkOut". A large red arrow points from the left towards the "MeSH Database" link.

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参考: <https://youtu.be/uyF8uQY9wys>

MeSH MeSH **Zika Virus** Create alert Limits Advanced Search Help

Summary ▾ Send to: ▾

Search results Items: 3

① [Zika Virus](#)

② [Zika Virus](#)

1. An arbovirus in the FLAVIVIRUS genus of the family FLAVIVIRIDAE. Originally isolated in the Zika Forest of UGANDA it has been introduced to Asia and the Americas.
Year introduced: 2016

2. A viral disease transmitted by the bite of AEDES mosquitoes infected with ZIKA VIRUS. Its mild DENGUE-like symptoms include fever, rash, headaches and ARTHRALGIA. The viral infection during pregnancy, in rare cases, is a cause of congenital brain abnormalities, including MICROCEPHALY and may also lead to GUILLAIN-BARRE SYNDROME.
Year introduced: 2016

3. [Zika Virus Infection](#)

4. [NS1 protein, zika virus \[Supplementary Concept\]](#)

5. Date introduced: July 30, 2017

Send to: ▾

PubMed Search Builder

Add to search builder AND Search PubMed YouTube Tutorial

Find related data Database: Select Find items

Search details "zika virus" [MeSH Terms] OR Zika Virus [Text Word]

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Zika Virus

An arbovirus in the FLAVIVIRUS genus of the family FLAVIVIRIDAE. Originally isolated in the Zika Forest of UGANDA it has been introduced to Asia and the Americas.

Year introduced: 2016

PubMed search builder options

Subheadings:

- analysis
- anatomy and histology
- chemistry
- classification
- cytology
- drug effects
- enzymology
- etiology
- genetics
- growth and development
- immunology
- isolation and purification

Restrict to MeSH Major Topic.

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

Tree Number(s): B04.820.250.350.995

MeSH Unique ID: D000071244

Entry Terms:

- ZikV
- Virus, Zika

Previous Indexing:

- Arboviruses (1964-2015)
- Flavivirus (1964-2015)

[All MeSH Categories](#)

[Organisms Category](#)

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③

④

PubMed Search Builder

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Related information

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[Zika Virus](#)

MeSH

[A report on the outbreak of Zika virus on Easter Island, South Pacific, 2014](#) [PubMed](#)

[zika virus \(4340\)](#)

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Mid-Year Changes in MeSH Descriptors

MeSH Descriptors and Qualifiers are normally released on an annual basis. Each annual release occurs in mid November of the previous year, and becomes part of PubMed and other data systems in time for the change in the calendar year. For example 2016 MeSH was released in November of 2015.

Additional changes to Descriptors or Qualifiers for the current MeSH year are less common and can occur periodically when needed. When this happens we will update the [MeSH release files](#) and list the changes below.

Two new MeSH headings were added as of Jan 28th, 2016

- [Zika Virus](#)
- [Zika Virus Infection](#)

These headings are immediately available by downloading the latest version of [2016 MeSH](#) data.

We created these headings in response to the Zika virus epidemic, which is transmitted to people primarily through the bite of an infected Aedes species mosquito. These are the same mosquitoes that spread Dengue and Chikungunya viruses.



Aedes mosquito: Pan American Health Organization

Article types
Clinical Trial
Review
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Publication dates
5 years
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Species
Humans
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Filters: [Manage Filters](#)

Sort by:

Best match

Most recent

Search results

Items: 1 to 20 of 298

<< First < Prev Page 1 of 15 Next > Last >>

[Current Zika virus epidemiology and recent epidemics.](#)

1. Loos S, Mallet HP, Leparc Goffart I, Gauthier V, Cardoso T, Herida M. *Med Mal Infect*. 2014 Jul;44(7):302-7. doi: 10.1016/j.medmal.2014.04.008. Epub 2014 Jul 4. PMID: 25001879

[Similar articles](#)

[Accidental discovery and isolation of Zika virus in Uganda and the relentless epidemiologist behind the investigations.](#)

2. Zhou H, Eaton B, Hu Z, Arif B. *Virol Sin*. 2016 Aug;31(4):357-61. doi: 10.1007/s12250-016-3821-6. Review. No abstract available.

PMID: 27438084

[Similar articles](#)

[Zika virus: history of a newly emerging arbovirus.](#)

3. Wikan N, Smith DR. *Lancet Infect Dis*. 2016 Jul;16(7):e119-e126. doi: 10.1016/S1473-3099(16)30010-X. Epub 2016 Jun 6. Review.

PMID: 27282424

[Similar articles](#)

[Detection and sequencing of Zika virus from amniotic fluid of fetuses with microcephaly in Brazil: a case study.](#)

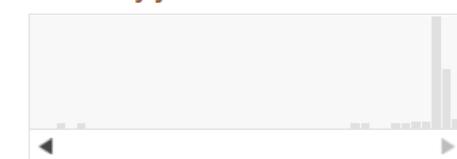
4. Calvet G, Aguiar RS, Melo ASO, Sampaio SA, de Filippis I, Fabri A, Araujo ESM, de Sequeira PC, de Mendonça MCL, de Oliveira L, Tschoeke DA, Schrago CG, Thompson FL, Brasil P, Dos Santos FB, Nogueira RMR, Tanuri A, de Filippis AMB.

Lancet Infect Dis. 2016 Jun;16(6):653-660. doi: 10.1016/S1473-3099(16)00095-5. Epub 2016 Feb 18.

PMID: 26897108

[Similar articles](#)

Results by year



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特定の検索目的に特化したPubMedの利用



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Latest Literature

- New articles from highly accessed journals
- [Am J Clin Nutr](#) (3)
- [Blood](#) (3)
- [Cochrane Database Syst Rev](#) (2)

Trending Articles

- PubMed records with recent increases in activity
- Elevated prenatal anti-Müllerian hormone reprograms the fetus and induces polycystic ovary syndrome in adulthood.
Nat Med. 2018.
- [Dietary fiber intervention on gut microbiota](#)

PubMed Clinical Queries

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

zika virus

Clinical Study Categories

Category: Scope:

Results: 5 of 211

Low Zika virus seroprevalence among pregnant women in North Central Nigeria, 2016.
Mathé P, Egah DZ, Müller JA, Shehu NY, Obishakin ET, Shwe DD, Pam VC, Okolo MO, Ylgwan C, Gomerep SS, et al. *J Clin Virol.* 2018 May 26; 105:35-40. Epub 2018 May 26.

The AWED trial (Applying Wolbachia to Eliminate Dengue) to assess the efficacy of Wolbachia-infected mosquito deployments to reduce dengue incidence in Yogyakarta, Indonesia: study protocol for a cluster randomised controlled trial.

Anders KL, Indriani C, Ahmad RA, Tantuwijoyo W, Arguni E, Andari B, Jewell NP, Rances E, O'Neill SL, Simmons CP, et al. *Trials.* 2018 May 31; 19(1):302. Epub 2018 May 31.

A Machine Learning Application Based in Random Forest for Integrating Mass Spectrometry-Based Metabolomic Data: A Simple Screening Method for Patients With Zika Virus.

Melo CFOR, Navarro LC, de Oliveira DN, Guerreiro TM, Lima EO, Delafiori J, Dabaja MZ, Ribeiro MDS, de Menezes M, Rodrigues RGM, et al. *Front Bioeng Biotechnol.* 2018; 6:31. Epub 2018 Apr 11.

Maternity Care Update: Preconception Care.

Smith A, Barr WB, Bassett-Nova E, Lefevre N. *FP Essent.* 2018 Apr; 467:11-16.

Knowledge, Attitudes, and Practices among Health-Care Providers Regarding Zika Virus Infection.

Sharma S, Tyagi A, Ramachandra S, Bhuyan L, Dash KC, Raghuvaran M. *J Int Soc Prev Community Dent.* 2018 Jan-Feb; 8(1):41-47. Epub 2018 Feb 22.

[See all \(211\)](#)

This column displays citations filtered to a specific clinical study category and scope. These search filters were developed by Haynes RB et al. See more filter information.

Systematic Reviews

Results: 5 of 61

Breast milk transmission of flaviviruses in the context of Zika virus: A systematic review.
Mann TZ, Haddad LB, Williams TR, Hills SL, Read JS, Dee DL, Dziuban EJ, Pérez-Padilla J, Jamieson DJ, Honein MA, et al. *Paediatr Perinat Epidemiol.* 2018 Jun 8;. Epub 2018 Jun 8.

Congenital Zika syndrome: Pitfalls in the placental barrier.

Robinson N, Mayorquin Galvan EE, Zavala Trujillo IG, Zavala-Cerna MG. *Rev Med Virol.* 2018 May 15; :e1985. Epub 2018 May 15.

The Zika epidemic and abortion in Latin America: a scoping review.

Carabali M, Austin N, King NB, Kaufman JS. *Glob Health Res Policy.* 2018; 3:15. Epub 2018 May 3.

Effects of desiccation stress on adult female longevity in *Aedes aegypti* and *Ae. albopictus* (Diptera: Culicidae): results of a systematic review and pooled survival analysis.

Schmidt CA, Comeau G, Monaghan AJ, Williamson DJ, Ernst KC. *Parasit Vectors.* 2018 Apr 25; 11(1):267. Epub 2018 Apr 25.

Harnessing Big Data for Communicable Tropical and Sub-Tropical Disorders: Implications From a Systematic Review of the Literature.

Gianfredi V, Bragazzi NL, Nucci D, Martini M, Rosselli R, Minelli L, Moretti M. *Front Public Health.* 2018; 6:90. Epub 2018 Mar 21.

[See all \(61\)](#)

This column displays citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See [filter information](#) or additional related sources.

Medical Genetics

Topic:

Results: 5 of 666

Follow up of a robust meta-signature to identify Zika virus infection in *Aedes aegypti*: another brick in the wall.
Fukutani E, Rodrigues M, Kasprzykowski JI, Araujo CF, Paschoal AR, Ramos PIP, Fukutani KF, Queiroz ATL. *Mem Inst Oswaldo Cruz.* 2018; 113(6):e180053. Epub 2018 May 28.

Nucleocytoplasmic Trafficking of Dengue Non-structural Protein 5 as a Target for Antivirals.

Jans DA, Martin AJ. *Adv Exp Med Biol.* 2018; 1062:199-213.

Establishment and Application of Flavivirus Replicons.

Kümmerer BM. *Adv Exp Med Biol.* 2018; 1062:165-173.

Genomic Epidemiology Reconstructs the Introduction and Spread of Zika Virus in Central America and Mexico.

Thézé J, Li T, du Plessis L, Bouquet J, Kraemer MUG, Somasekar S, Yu G, de Cesare M, Balmaseda A, Kuan G, et al. *Cell Host Microbe.* 2018 May 15;. Epub 2018 May 15.

NS1 codon usage adaptation to humans in pandemic Zika virus.

Freire CCM, Palmisano G, Braconi CT, Cugola FR, Russo FB, Beltrão-Braga PC, Iamarino A, Lima Neto DF, Sall AA, Rosa-Fernandes L, et al. *Mem Inst Oswaldo Cruz.* 2018 May 10; 113(5):e170385. Epub 2018 May 10.

[See all \(666\)](#)

This column displays citations pertaining to topics in medical genetics. See [more filter information](#).



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予め設定されたPubMed検索テンプレート

Category	Optimized For	Sensitive/ Specific	PubMed Equivalent
therapy	sensitive/broad	99%/70%	((clinical[Title/Abstract] AND trial[Title/Abstract]) OR clinical trials as topic[MeSH Terms] OR clinical trial[Publication Type] OR random*[Title/Abstract] OR random allocation[MeSH Terms] OR therapeutic use[MeSH Subheading]))
	specific/narrow	93%/97%	(randomized controlled trial[Publication Type] OR (randomized[Title/Abstract] AND controlled[Title/Abstract] AND trial[Title/Abstract])))
diagnosis	sensitive/broad	98%/74%	(sensitivity*[Title/Abstract] OR sensitivity and specificity[MeSH Terms] OR diagnose[Title/Abstract] OR diagnosed[Title/Abstract] OR diagnoses[Title/Abstract] OR diagnosing[Title/Abstract] OR diagnosis[Title/Abstract] OR diagnostic[Title/Abstract] OR diagnosis[MeSH:noexp] OR diagnostic *[MeSH:noexp] OR diagnosis,differential[MeSH:noexp] OR diagnosis[Subheading:noexp])
	specific/narrow	64%/98%	(specificity[Title/Abstract])
etiology	sensitive/broad	93%/63%	(risk*[Title/Abstract] OR risk*[MeSH:noexp] OR risk *[MeSH:noexp] OR cohort studies[MeSH Terms] OR group[Text Word] OR groups[Text Word] OR grouped [Text Word])
	specific/narrow	51%/95%	((relative[Title/Abstract] AND risk*[Title/Abstract]) OR (relative risk[Text Word]) OR risks[Text Word] OR cohort studies[MeSH:noexp] OR (cohort[Title/Abstract] AND study[Title/Abstract]) OR (cohort[Title/Abstract] AND studies[Title/Abstract]))
prognosis	sensitive/broad	90%/80%	(incidence[MeSH:noexp] OR mortality[MeSH Terms] OR follow up studies[MeSH:noexp] OR prognosis*[Text Word] OR predict*[Text Word] OR course*[Text Word])
	specific/narrow	52%/94%	(prognosis*[Title/Abstract] OR (first[Title/Abstract] AND episode[Title/Abstract]) OR cohort[Title/Abstract])
clinical prediction guides	sensitive/broad	96%/79%	(predict*[tiab] OR predictive value of tests[mh] OR score[tiab] OR scores[tiab] OR scoring system[tiab] OR scoring systems[tiab] OR observ*[tiab] OR observer variation[mh])
	specific/narrow	54%/99%	(validation[tiab] OR validate[tiab])

http://www.ncbi.nlm.nih.gov/books/NBK3827/#pubmedhelp.Clinical_Queries_Filters

Search Strategy Used to Create the Systematic Reviews Subset on PubMed

```
(systematic review [ti] OR meta-analysis [pt] OR meta-analysis [ti] OR systematic literature review [ti] OR this systematic review [tw] OR pooling project [tw] OR  
(systematic review [tiab] AND review [pt]) OR meta synthesis [ti] OR meta synthesis [ti] OR integrative review [tw] OR integrative research review [tw] OR  
rapid review [tw] OR consensus development conference [pt] OR practice guideline [pt] OR drug class reviews [ti] OR cochrane database syst rev [ta] OR acp journal club [ta] OR  
health technol assess [ta] OR evid rep technol assess summ [ta] OR jbi database system rev implement rep [ta]) OR (clinical guideline [tw] AND management [tw]) OR  
((evidence based[ti] OR evidence-based medicine [mh] OR best practice* [ti] OR evidence synthesis [tiab])  
AND (review [pt] OR diseases category[mh] OR behavior and behavior mechanisms [mh] OR therapeutics [mh] OR evaluation studies[pt] OR validation studies[pt] OR guideline [pt] OR pmcbook))  
OR  
((systematic [tw] OR systematically [tw] OR critical [tiab] OR (study selection [tw])) OR  
(predetermined [tw] OR inclusion [tw] AND criteri* [tw]) OR exclusion criteri* [tw] OR main outcome measures [tw] OR standard of care [tw] OR standards of care [tw])  
AND  
(survey [tiab] OR surveys [tiab] OR overview* [tw] OR review [tiab] OR reviews [tiab] OR search* [tw] OR  
handsearch [tw] OR analysis [ti] OR critique [tiab] OR appraisal [tw] OR  
(reduction [tw] AND (risk [mh] OR risk [tw]) AND (death OR recurrence)))  
AND  
(literature [tiab] OR articles [tiab] OR publications [tiab] OR publication [tiab] OR  
bibliography [tiab] OR bibliographies [tiab] OR published [tiab] OR pooled data [tw] OR  
unpublished [tw] OR citation [tw] OR citations [tw] OR database [tiab] OR internet [tiab] OR textbooks [tiab] OR  
references [tw] OR scales [tw] OR papers [tw] OR datasets [tw] OR trials [tiab] OR meta-analy* [tw] OR  
(clinical [tiab] AND studies [tiab]) OR treatment outcome [mh] OR treatment outcome [tw] OR pmcbook))  
NOT  
(letter [pt] OR newspaper article [pt])
```

https://www.nlm.nih.gov/bsd/pubmed_subsets/sysreviews_strategy.html

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Article types: Clinical Trial, Review, Customize ...
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Publication dates: 5 years, 10 years, Custom range...
Species: Humans, Other Animals
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Format: Summary Sort by: Best Match Per page: 20 Send to Filters: Manage Filters

Human genome BLAST
Primary reference assembly (GRCh38)
Dataset: Genomic DNA Program: blastn
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BLAST More options

Sort by: Best match Most recent

Results by year
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Items: 1 to 20 of 722 Page 1 of 37 << First < Prev Next > Last >>

- [MLL leukemia induction by genome editing of human CD34+ hematopoietic cells.](#)
1. Buechle C, Breese EH, Schneidawind D, Lin CH, Jeong J, Duque-Afonso J, Wong SH, Smith KS, Negrin RS, Porteus M, Cleary ML.
Blood. 2015 Oct 1;126(14):1683-94. doi: 10.1182/blood-2015-05-646398. Epub 2015 Aug 26.
PMID: 26311362 [Free PMC Article](#)
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2. Liu Y, Li J.
Curr Microbiol. 2011 Mar;62(3):770-6. doi: 10.1007/s00284-010-9783-2. Epub 2010 Oct 24.
PMID: 20972791
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3. Introns in the **Human Genome**.

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ただし、それがPubMedデータベースの索引に含まれていなければならぬ
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 - Open Data
 - ✗ Linked Open
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 - 人手により付けられており時間がかかるため
 - 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

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Clinical Trial

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Customize ...

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[Zika virus shedding in semen.](#)
Stower H
Nat Med [01 Jun 2018, 24(6):702]
Cited: 0 times (PMID:29875461)

[The immunopathogenesis of Zika virus: an overview.](#)
Javanian M, Babazadeh A, Ebrahimpour S
Rom J Intern Med [01 Jun 2018, 56(2):128-129]
Cited: 0 times (PMID:29360629)

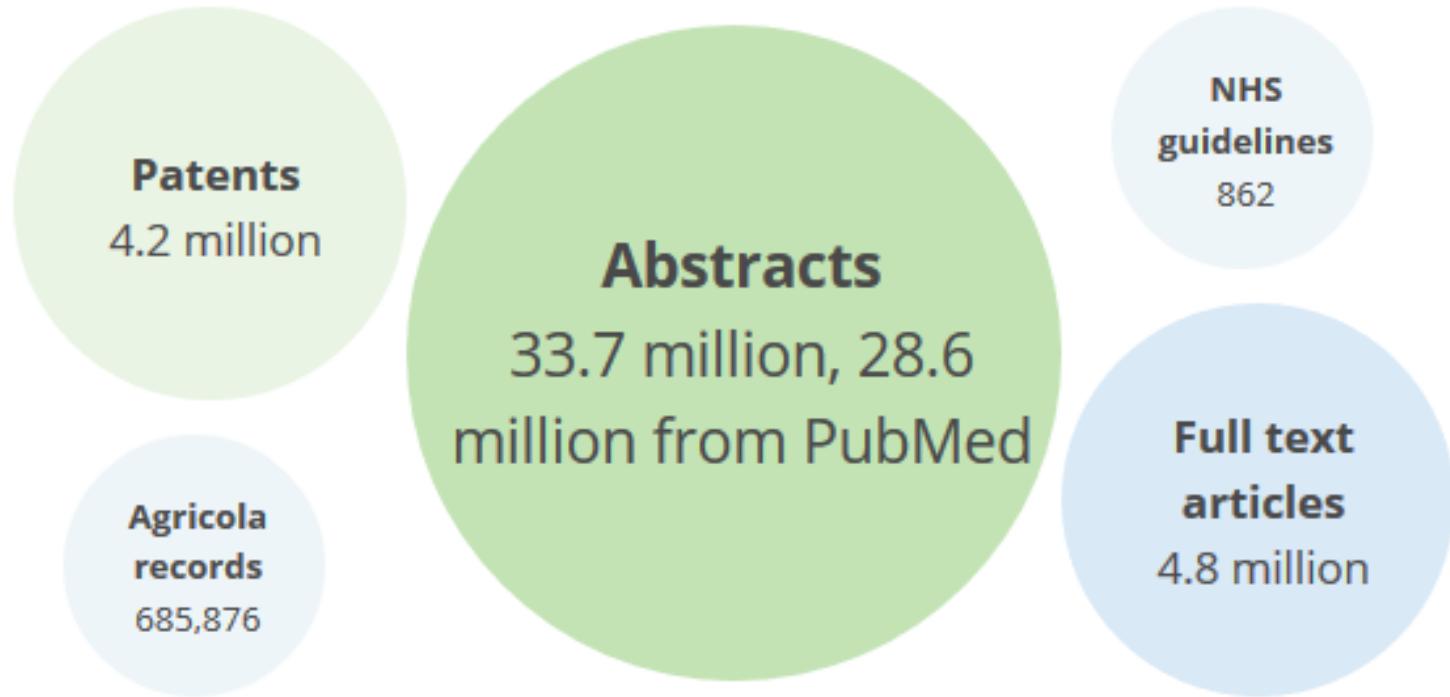
[Zika Virus and the Risk for Renter Households.](#)
Scarborough A, Rathnasekara H, Holt M, Hill J, Kafle R
Diseases [15 May 2018, 6(2)]
a relationship between rental housing and the **Zika virus**. Our findings indicated a significant correlation ... reemergence of **Zika virus**. Some research has indicated that a higher risk of catching **Zika virus** may exist
Cited: 0 times (PMID:29762473)

[Psoriasis triggered by Zika virus infection.](#)

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Feedback



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主要な用語をハイライト

□ Neurological complications of Zika virus infection.
(PMID:29668332)

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[Carod-Artal F](#)¹

[Affiliations»](#)

[Expert Review of Anti-infective Therapy](#) [26 Apr 2018, 16(5):399-410]

Type: Journal Article
DOI: [10.1080/14787210.2018.1466702](https://doi.org/10.1080/14787210.2018.1466702)

Abstract

Zika virus (ZIKV) disease is a vector-borne infectious disease transmitted by Aedes mosquitoes. Recently, ZIKV has caused outbreaks in most American countries. Areas covered: Publications about neurological complications of ZIKV infection retrieved from pubmed searchers were reviewed, and reference lists and relevant articles from review articles were also examined. Vertical/intrauterine transmission leads to congenital infection and causes microcephaly and congenital ZIKV syndrome. ZIKV preferentially infects human neural progenitor cells and triggers cell apoptosis. ZIKV RNA has been identified in foetal brain tissue and brains of microcephalic infants who died; amniotic fluid and placentas of pregnant mothers; and umbilical cord, cerebrospinal fluid and meninges of newborns. The increase in the number of Guillain-Barre syndrome (GBS) cases during the ZIKV outbreak in the Americas provides epidemiological evidence for the link between ZIKV infection and GBS. Less frequently reported ZIKV neurological complications include encephalitis/meningoencephalitis, acute disseminated encephalomyelitis, myelitis, cerebrovascular complications (ischemic infarction; vasculopathy), seizures and encephalopathy, sensory polyneuropathy and sensory neuronopathy. Analysis of GBS incidence could serve as an epidemiological 'marker' or sentinel for ZIKV disease and other neurological complications associated to ZIKV. Expert commentary: An expanding spectrum of neurological complications associated with ZIKV infection is being recognised.

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2018

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Organisms (3) »

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実習

iPS細胞に関する山中先生が著者に
含まれている論文を探す
(MeSH Databaseから検索)





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

随時更新
利用料なし



引用情報の検索

Allie (アリー) 文献で使われる略語とその展開形を検索



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

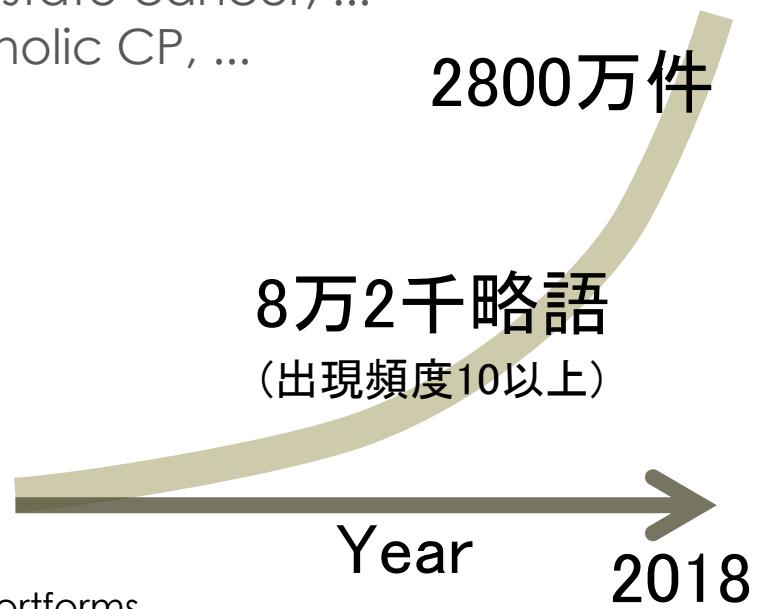
A collage of various scientific and medical terms in a cloud-like arrangement, set against a background of colorful book spines.

The terms include:

- LC
- DC
- CVD
- CMV
- CAT
- BM
- AUC
- AMI
- BMD
- AR
- CD
- AA
- AIDS
- AP
- ACh
- ACE
- BP
- ALL
- AML
- AF
- cAMP
- CF
- EEG
- ATP
- CL
- CA
- CP
- CV
- CO
- DM
- ED
- ECM
- ET
- GFP
- CS
- FISH
- EC
- HIV-1
- EGF
- CSF
- IL
- HA
- NSCLC
- MAPK
- IL-6
- MAPL
- LV
- RR
- Ig
- IFN-gamma
- ES
- EMG
- CT
- HPLC
- HCV
- MS
- RA
- RO
- TNF
- MRI
- RT-PCR
- PCR
- ELISA
- MHC
- MD
- HBV
- HIV
- LPS
- OR
- PKC
- SEM
- WT
- SLE
- SD
- VEGF
- HR
- LDL
- HPV
- HCC
- GABA
- ER
- IFN
- HD
- GH
- LH
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- PD
- PSA
- RT
- SC
- CV
- CEA
- EGFR
- EBV
- DM
- ED
- FA
- HF
- LDH
- iNOS
- GC
- MDA
- NK
- NGF
- PS
- PR
- PTH
- OS
- LC
- ICU
- OA
- PE
- PG
- PCA
- RF
- ROC
- TG
- SP
- SNP
- SR
- SOD
- SNPs
- TPA

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
発表文献数は増加の一途 (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
PC: personal computer, primary care, prostate cancer, ...
Alcoholic chronic pancreatitis: ACP, alcoholic CP, ...



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

生命科学系の略語を簡単に調べる方法はないか?

新たに作られた略語を含めて

Toxicol Sci. 2010 Feb;113(2):293-304. Epub 2009 Oct 25.

Effects of cytochrome P450 inhibitors on the biotransformation of fluorogenic substrates by adult male rat liver microsomes and cDNA-expressed rat cytochrome P450 isoforms.

Makaji E, Trambitas CS, Shen P, Holloway AC, Crankshaw DJ.

Department of Obstetrics & Gynecology, McMaster University, Ontario, Canada.

Abstract

We have evaluated the use of a panel of six fluorogenic cytochrome P450 (CYP) substrates as

計算機を用いて自動的に抽出

7-methoxy-4-methylcoumarin (AMMC), 7-benzyloxy-4-(trifluoromethyl)-coumarin, 7-benzyloxyquinoline, 3-cyano-7-ethoxycoumarin, 7-methoxy-4-(trifluoromethyl)-coumarin, and 7-ethoxy-4-trifluoromethyl-coumarin by microsomes from adult male rat liver were characterized, their sensitivities to 15 putative inhibitors were determined and compared to similar experiments using nine different complementary DNA (cDNA) expressed rat CYPs. Inhibitory profiles of the substrates in microsomes were different from each other, with some overlap, suggesting that each substrate is to some extent specific for a particular CYP. CYP2E1 was most sensitive to clotrimazole were nonselected for CYP2E1 expression. CYP2E1 was insensitive to AMMC. CYP2A1 did not biotransform any of the substrates, and CYP2E1 was insensitive to

complementary DNA – cDNA

約2800万件

reactive oxygen species
ROS

high-performance liquid chromatography
FTIR

superoxide dismutase
SOD



MEDLINEに含まれる全文献情報を対象に抽出

約2048万ペア (unique: 355万)

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

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



ライフサイエンス統合データベースセンター

- 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, ...

ペア出現頻度の経年変化

Allie A Search Service for Abbreviation / Long Form

■ 略語／展開語 : iPS／induced pluripotent stem

[関連PubMed/MEDLINE情報]
合計出現文献数: 1565

2017
NumberOfPapers: 107

年

[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: RDF iPS (>> 共起略語)
展開形: RDF induced pluripotent stem
■ DBpedia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	2018	Allele-Specific Biased Expression of the CNTN6 Gene in iPS Cell-Derived Neurons from a Patient with Intellectual Disability and 3p26.3 Microduplication Involving the CNTN6 Gene.	CNVs
2	2018	Amenable epigenetic traits of dental pulp stem cells underlie high capability of xeno-free episomal reprogramming.	DPSCs, ES
3	2018	Analysis of mitochondrial function in human induced pluripotent stem cells from patients with mitochondrial diabetes due to the A3243G mutation.	---
4	2018	Approach for the Derivation of Melanocytes from Induced Pluripotent StemCells.	---
5	2018	Billion-scale production of hepatocyte-like cells from human induced pluripotent stem cells.	RCCS
6	2018	Cerebral organoids derived from Sandhoff disease-induced pluripotent stem cells exhibit impaired neurodifferentiation.	---
7	2018	Chick derived induced pluripotent stem cells by the poly-cistronic transposon with enhanced transcriptional activity.	---
8	2018	Cytochrome P450-dependent drug oxidation activities in commercially available hepatocytes derived from human induced pluripotent stem cells cultured for 3 weeks.	---
9	2018	Design of Bioartificial Pancreases From the Standpoint of Oxygen Supply.	BAP, ES
10	2018	Effect of stem cell niche elasticity/ECM protein on the self-beating cardiomyocyte differentiation of induced pluripotent stem (IPS) cells at different stages.	BCMs, COL, Es, FN, GEL, iPPSs, NCMs, TCPS
11	2018	Effects of hypoxia inducible factors on pluripotency in human iPS cells.	HIFs, RT-PCR, STAT3

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 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)

[[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することができます。

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

略語のアリー

検索



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

最終更新日: 2018年5月8日 (一ヶ月毎の更新)

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



The screenshot shows a video player interface with a play button in the center. To the left is a sidebar with navigation buttons and the text 'Allieを使って略語の正式名称を検索する 2017'. The main area displays a table of search results:

順位	略語	件数	頻度
1	ES	359	14203
2	hES	38	524
3	ESCs	36	2874
4	EBs	30	1076
5	MEFs	30	1972
6	EB	23	5253
7	MSCs	21	12897
8	ESC	20	2359
9	PD	20	54878
10	RPE	20	9038
11	hESCs	19	2105
15	NPCs	13	2018
16	Ad	12	2221

A blue box overlaid on the table contains the text: '全ての共起略語のリストとなっています。頻度が高い順に掲載されています。' (This is a list of all co-occurring abbreviations. They are listed in descending order of frequency.)

■ 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。

<http://togo.tv.dbcls.jp/20171025.html>



ライフサイエンス統合データベースセンター

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
15571	HIV-1	human immunodeficiency virus type 1	ヒト免疫不全ウイルス1型
7037	RT	reverse transcriptase	逆転写酵素
7037	HSV	herpes simplex virus	単純ヘルペスウイルス, 単純疱疹ウイルス
6514	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
6240	HSV-1	herpes simplex virus type 1	単純ヘルペスウイルス1型
5485	HA	hemagglutinin	ヘマグルチニン, 血球凝集素, 赤血球凝集素
4809	HCMV	human cytomegalovirus	ヒトサイトメガロウイルス
4665	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
3857	VZV	varicella-zoster virus	水痘・帯状疱疹ウイルス, 水痘帯状疱疹ウイルス
3029	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

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

UniProtとの連合検索例

UniProt

SPARQL Downloads Documentation/Help Contact

Results

[Sparql XML](#) [Sparql JSON](#) [CSV](#) [Share](#)

englishLabelStr	protein	japaneseLabelStr
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P08592	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P05067	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P53601	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P79307	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P12023	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q28280	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q60495	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/073683	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/O93279	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P29216	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/P86906	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q28053	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q28748	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q28757	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q29149	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q5IS80	アミロイド前駆体タンパク質
Amyloid precursor protein	http://purl.uniprot.org/uniprot/Q95241	アミロイド前駆体タンパク質

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

SPARQL Query created by @jervenbolleman

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

englishLabelStr	japaneseLabelStr
"amyloid precursorprotein"	"アミロイド前駆体タンパク質"@ja
"amyloid protein precursor"	"アミロイド前駆体タンパク質"@ja
"amyloid-precursor protein"	"アミロイド前駆体タンパク質"@ja
"amyloid-precursor-protein"	"アミロイド前駆体タンパク質"@ja
"amyloid.precursor-protein"	"アミロイド前駆体タンパク質"@ja

```
PREFIX up:<http://purl.uniprot.org/core/>
PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX allie:<http://purl.org/allie/ontology/201108#>

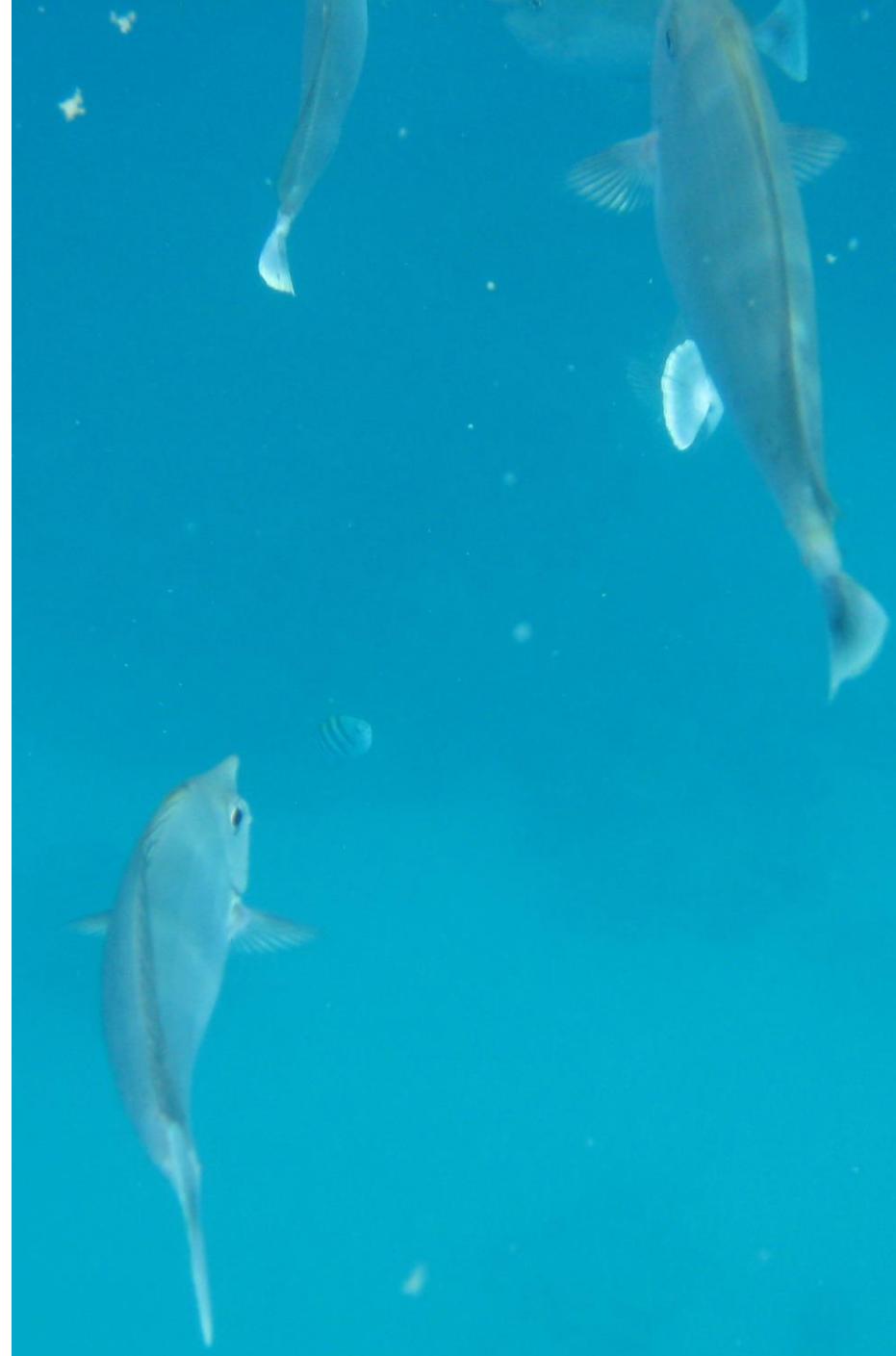
SELECT ?englishLabelStr ?protein ?japaneseLabelStr
WHERE {
  BIND("アミロイド前駆体タンパク質"@ja AS ?japaneseLabelStr)
  SERVICE<http://data.allie.dbcls.jp/sparql>{
    ?x rdfs:label ?japaneseLabelStr ;
      rdfs:label ?englishLabel .
      FILTER(lang(?englishLabel) = "en")
  }
  BIND (STR(?englishLabel) AS ?englishLabelStr)
  ?protein a up:Protein .
  {
    ?protein (up:recommendedName|up:alternativeName) ?structuredName .
  }
  UNION
  {
    VALUES(?partType){(up:domain) (up:component)}
    | ?protein ?partType ?part .
    ?part (up:recommendedName|up:alternativeName) ?structuredName .
  }
  ?structuredName ?anyKindOfName ?englishLabelStr .
  ?anyKindOfName rdfs:subPropertyOf up:structuredNameType .
}
```



ライフサイエンス統合データベースセンター

実習

- 略語MERSの展開形を検索
- 共起略語をみて、MERSよりもMERS-CoVとして使われている文献が多いことを確認する
- 目的の展開形について、詳細情報として実際に利用されている表現や文献リストを確認する



inMeXes (インメクセズ)
文献中に書かれている英語表現を検索



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

英作文をしていると出くわす悩み



- 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の続きはどう綴ったかな？
- associated with を修飾する副詞、文献でよく使われているものは何だろう？
- 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 にお任せください!



inMeXes

- 高速
MEDLINEに含まれる全ての題目、要旨中の表現を高速に検索
- 軽快
4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 ($\rho = .65$, 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 <i>in vitro</i> 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 <i>E. coli</i> 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

The screenshot shows a search interface with the query "unknown" entered. The results are filtered by "inMeXes". A red circle highlights the "関連語" (Related Words) tab in the navigation bar. The results table lists words along with their distances from "unknown" and their category.

距離	単語	リンク
0.93	unclear	inMeXes
0.92	undefined	inMeXes
0.91	uncertain	inMeXes
0.87	unexplored	inMeXes
0.85	controversial	inMeXes
0.83	unresolved	inMeXes
0.83	elusive	inMeXes
0.82	debated	inMeXes
0.81	unrecognized	inMeXes
0.81	obscure	inMeXes
0.77	enigmatic	inMeXes
0.77	disputed	inMeXes
0.77	unreported	inMeXes
0.76	debatable	inMeXes
0.76	undescribed	inMeXes
0.76	important	inMeXes
0.75	uncharacterized	inMeXes
0.75	undetected	inMeXes
0.75	understudied	inMeXes
0.74	underappreciated	inMeXes

やや高度な使い方: 正規表現フィルタ

- 例: was _ correlated withの_にはどのような表現があるかを知りたい

correlated with で終わる 表現を検索 フィルタを表示

正規表現フィルタ(?): ^was にマッチする表現のみ に絞る フィルタのクリア 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: 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
46664			was correlated with Neoplasms / Neurology / Medicine	
21320			was positively correlated with Medicine / Neoplasms / Neurology	
19816			was significantly correlated with Neoplasms / Neurology / Medicine	
12085			was negatively correlated with Medicine / Neurology / Endocrinology	
8702			was not correlated with Neoplasms / Neurology / Medicine	
6898			was inversely correlated with Neoplasms / Medicine / Endocrinology	
4063			was highly correlated with Neurology / Physiology / Neoplasms	
3597			was strongly correlated with Neoplasms / Neurology / Medicine	
1922			was closely correlated with Neoplasms / Biochemistry / Medicine	
1873			was not significantly correlated with Neoplasms / Neurology / Medicine	
1777			was also correlated with Neoplasms / Neurology / Medicine	
1675			was well correlated with Neoplasms / Biochemistry / Pharmacology	
1323			was directly correlated with Neoplasms / Biochemistry / Vascular Diseases	
907			was found to be correlated with Neoplasms / Biochemistry / Neurology	
872			was significantly positively correlated with Environmental Health / Medicine / Psychiatry	
666			was significantly negatively correlated with Environmental Health / Medicine / Psychiatry	
572			was linearly correlated with Physiology / Biochemistry / Pharmacology	
555			was moderately correlated with Neurology / Psychiatry / Psychology	
546			was also significantly correlated with Neoplasms / Neurology / Medicine	
516			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 <http://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。

The screenshot shows the inMeXes search interface. At the top, there is a search bar containing "is associated" with a dropdown menu set to "を含む" (contains) and a button "表現を検索。" (Search expression). Below the search bar is a control panel with "最大結果表示件数: 20" (Maximum results displayed: 20), a dropdown for "検索結果のリンク先:" (Link destination of search results) set to "LSD共起リスト" (LSD Co-occurrence list), and a link "Permalink(?)". Below this is a navigation bar with tabs: "マッチ" (Match) which is highlighted in green, "関連語" (Related words), "頻度" (Frequency), "表現" (Expression), and "関連研究分野" (Related research fields).

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

The screenshot shows the search results for the query "is associated". The results are listed in a table with two columns. The left column contains IDs and terms, and the right column contains their corresponding medical categories. A large white arrow points from the search input field to the "検索" (Search) button.

8321	is associated with an increased risk of Medicine / Cardiology / Neoplasms
8065	it is associated Medicine / General Surgery / Neoplasms
7748	is associated with poor Neoplasms / Medicine / Cardiology
7657	it is associated with Medicine / General Surgery / Cardiology
7367	is associated with high Medicine / General Surgery / Cardiology
7300	is associated with reduced Medicine / Cardiology / Vascular Diseases

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下さい。

『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。support AT dbcls.rois.ac.jp



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

Twitter Facebook

The screenshot shows a search interface for common English expressions in scientific literature. The search term is "inMeXesを使って文献に頻出する英語表現や関連語を高...". The results are sorted by frequency. A yellow box highlights the search results, which include:

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ご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(NRDC)」の文献・データベースリストなどで確

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



ライフサイエンス統合データベースセンター

実習

- contributeと入力して続く前置詞を確認する
- informationと入力して下記の表現の利用頻度を見る
 - information of
 - information on
 - information about
- 以上の表現について、実際の文書を確認する



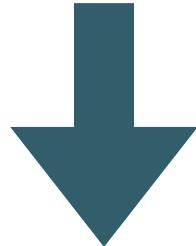
Colil (コリル) 文献の引用情報を検索



<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？
- ・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？



Coliiがお答えします

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187万件、PubMed全体の6%強)
- 約999万件の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2018年1月時点取得時のものです

PubMed ID or PubMed検索語を入力

Colil by DBCLS (最終更新日: 2018年1月29日)

ヘルプ Colil 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も指定できます。

PubMed IDを入力
23193287 Search
「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るます。
apoptosis
1995:2000[dp] "J Biol Chem"[jour]
Keywords here Search
「iPS 2006:2008[dp] "Cell"[jour]」で試す

① PubMed ID
もしくは

② PubMed検索語

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

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

23ページ 次へ →

並べ替え year SPARQLクエリを表示

29201381 0 Culture-independent genome sequencing of *Coxiella burnetii* from a native heart valve of a Tunisian patient with severe infective endocarditis.
Delaloye J, Pillonel T, Smaoui M, Znazen A, Abid L, Greub G New Microbes New Infect. 2018 Jan;21:31-35.

introduction *Coxiella burnetii* in 2003, 11 whole genomes and 27 draft genomes have been released in public databases, including the Dutch veterinary strain NL3262 and its epidemiologically linked human isolate [1], [14], [17], [18], [19], [20]. Nevertheless, the biology of *C. burnetii* is still not fully understood, and comparative genomic analyses might provide useful insights into the pathogenicity of *C. burnetii*.

28045932 2 Metavistor, a Suite of Galaxy Tools for Simple and Rapid Detection and Discovery of Viruses in Deep Sequence Data.
Carissimo G, van den Beek M, Vernick KD, Antoniewski C PLoS One. 2017;12(1):e0168397.

experimental procedures The “Get reference viral sequences” task is performed using the “Retrieve FASTA from NCBI” tool that sends a query string to the Genbank database [17] and retrieves the corresponding nucleotide or protein sequences.

28222096 1 Metacoder: An R package for visualization and manipulation of community taxonomic diversity data.
Foster ZS, Sharpton TJ, Grunwald NJ PLoS Comput Biol. 2017 Feb;13(2):e1005404.

design and implementation The extract_taxonomy function has been used successfully to parse several major database formats including Genbank [10], UNITE [11], Protist Ribosomal Reference Database (PR2) [12], Greengenes [13], Silva [14], and, as illustrated in Fig 1, the RDP [9].

28407753 Genomic characterization of two novel pathogenic avipoxviruses isolated from pacific shearwaters (*Ardenna spp.*).

関連論文 SPARQLクエリを表示

62 Basic local alignment search tool. PubMed

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

29 MUSCLE: multiple sequence alignment with high bootstrap values. PubMed

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

16904174

Search

「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る。例: *apoptosis*
1995:2000[dp] "J Biol Chem"[jour]

Keywords here

Search

「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。

関連論文

SPARQLクエリを表示

1219 **Induction of pluripotent stem cells from adult human fibroblasts by defined factors.**
PubMed

899 **Induced pluripotent stem cell lines derived from human somatic cells.**
PubMed

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.

← 前へ

合計: 4747, 20

▼

(1ページの件数), 1

/ 238ページ

次へ →

並べ替え year

SPARQLクエリを表示

28672915



PMC

Induction of reprogramming of human amniotic epithelial cells into iPS cells by overexpression of Yap, Oct4, and Sox2 through the activation of the Hippo-Yap pathway.

Zhao Y, Fei X, Guo J, Zou G, Pan W, Zhang J, Huang Y, Liu T, Cheng W Exp Ther Med. 2017 Jul;14(1):199-206.

discussion

Additionally, the preparation of iPS reprogramming using the four Yamanaka factors usually requires approximately 1 month (1,2). However, our iPS reprogramming only required 2 weeks. Experimental results indicated that the activation of the endogenous Hippo-Yap pathway in cells by overexpressing Yap could greatly shorten the iPS reprogramming time. Overall, the

28672915



PMC

Induction of reprogramming of human amniotic epithelial cells into iPS cells by overexpression of Yap, Oct4, and Sox2 through the activation of the Hippo-Yap pathway.

Zhao Y, Fei X, Guo J, Zou G, Pan W, Zhang J, Huang Y, Liu T, Cheng W Exp Ther Med. 2017 Jul;14(1):199-206.

materials and methods

According to a previously reported method (1), the total RNA from cells in all groups were extracted based on the manufacturer instructions for the TRIzol reagent (Invitrogen).

28067783



PMC

Stem Cell Transplantation for Peripheral Nerve Regeneration: Current Options and Opportunities.

Jiang L, Jones S, Jia X Int J Mol Sci. 2017 Jan 05;18(1):

stem cell sources

Takahashi demonstrated a protocol of defined transcription factors to induce pluripotency in mouse and human fibroblasts [3]. The ability of reprogramming cells supplies new hope to develop an individual-specific pluripotent stem cell that can overcome the restriction of ESCs. At present, understanding of iPSCs has advanced in multiple



ライフサイエンス統合データベースセンター

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/>

SPARQLクエリ例

Query of Authors' Comment

X

```
prefix colil: <http://purl.jp/bio/10/colil/ontology/201303#>
prefix bibo: <http://purl.org/ontology/bibo/>
prefix dc: <http://purl.org/dc/elements/1.1/>
prefix doco: <http://purl.org/spar/doco/>
prefix togows: <http://togows.dbcls.jp/ontology.ncbi-pubmed#>
prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#>
prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
select ?pmid ?title ?section ?pmcid ?comment where {
    ?context colil:mentions <http://purl.jp/bio/10/colil/id/10592235>;
        rdf:value ?comment.
    ?secnode doco:contains ?context;
        dc:title ?section.
    ?from doco:contains ?secnode;
        rdfs:seeAlso ?pmuri.
    ?pmuri rdf:type colil:PubMed;
        togows:ti ?title;
        togows:pmid ?pmid.
    optional {?from colil:pmcid ?pmcid.}
}
order by ASC(?pmid)
offset 0
limit 20
```

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

[「23103287」で検索](#)

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

The Protein Data Bank.

Berman HM, Westbrook J, Feng Z, Gilliland G, Bhat TN, Weissig H, Shindyalov IN, Bourne PE Nucleic Acids Res. 2000 Jan 01;28(1):235-42.
PMID: 10500005

http://colil.dbcls.jp/

ンを押してください。

[49]), selecting the highest-scoring 1,000 sequences. This set of sequences had average length 282, maximum



関連論文

[SPARQLクエリを表示](#)

- 541 [Gapped BLAST and PSI-BLAST: a new generation of protein database search programs.](#) [PubMed](#)

- 305 [Dictionary of protein secondary structure: pattern recognition of hydrogen-bonded and geometrical features.](#) [PubMed](#)

- 284 [Basic local alignment search tool](#) [PubMed](#)

[PMC](#)[introduction](#)

This impediment has been aggravated in recent years due to UniProtKB/TrEMBL1 with a solved protein structure in the PDB

percentage of protein sequences in

[17452350](#)[933](#)
[PubMed](#)[PMC](#)[MolProbity: all-atom contacts and structure validation for proteins and nucleic acids.](#)

Davis IW, Leaver-Fay A, Chen VB, Block JN, Kapral GJ, Wang X, Murray LW, Arendall WB 3rd, Snoeyink J, Richardson JS, Richardson DC Nucleic Acids Res. 2007 Jul;35(Web Server issue):W375-83.

[18215316](#)[LTASSER server for protein 3D structure prediction](#)

They are best when determined at high resolution or with many restraints per residue, but even then are not perfect: nearly all structures in the Protein Data Bank (PDB; 1) have a few local errors, such as backwards-fit branched sidechains, flipped amides and imidazoles, incorrect sugar pucker, misoriented ligands, misidentified 'waters' and local errors in chain tracing.

動画チュートリアル(統合TV)

[文献検索][DBCLS] Colilを使って論文の引用情報を検索する

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。

※動画にはBGM音声が付与されていますので、閲覧の際にはご注意ください。

[YouTube版はこちらです。](#)



Generated by CAMTASIA STUDIO 7

<http://togotv.dbcls.jp/20150207.html#p01>



ライフサイエンス統合データベースセンター

実習

- PDBの文献(PMID: 10592235)に対し、他の文献中でどのように触れられているのか概観する。
- 関連文献にはどのような研究課題があるのかを確認する。
- EMBL-EBIのバイオインフォ解析ツールに関する文献(PMID: 20439314)についてはどうか。



Questions?

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@yayamamo