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文献情報



Latest Literature
New articles from highly accessed journals
Clin Infect Dis (7)
Drugs (1)
Gastroenterology (1)
Lancet (2)
Methods (1)
Mol Cell (3)
Neuron (1)
Sports Med (1)

Trending Articles
PubMed records with recent increases in activity
A view on drug resistance in cancer.
Nature. 2016.
Bacteriophage targeting of gut bacterium attenuates alcoholic liver disease.
Nature. 2016.
Activation and suppression of haemopoietic integrins in hemostasis and immunity.
Blood. 2016.
CDK phosphorylation of TRF2 controls Hoop dynamics during the cell cycle.
Nature. 2016.
Activity of caspase-8 determines plasticity between cell death pathways.
Nature. 2016.
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LODQA 自然言語でSPARQLエンドポイントを検索するためのインターフェースです。	PubCaseFinder 患者の症状を入力するだけで、関連する希少・難治性疾患の候補を可能性が高い順に自動的にリストアップしてくれる医療者向け検索システムです。	PubAnnotation 文献アノテーションのレポジトリ。特にPubMedに対してのアノテーションを統合している。
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PubDictionaries テキストマイニング用辞書のレポジトリ。だれでも辞書のアップロードができる、辞書を使ってテキストアノテーションもできます。	Allie 文献中に登場する略語とその正式名称の組およびその付随情報を検索します。	Colil ある論文が他の論文から引用されているとき、本文中ではどのような文脈で引用されているかについて、効率良く検索します。
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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,

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

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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Last updated: 21 June 2016

百万

30

25

20

15

10

5

0

合計件数



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

PubMed書誌情報件数推移



合計件数
(左軸)

追加件数
(右軸)

1996

11,937,110

456,362

1945

1950

1955

1960

1965

1970

1975

1980

1985

1990

1995

2000

2005

2010

2015

1,400

1,200

1,000

800

600

400

200

0

千

年当たり追加件数

現状

- 3000万件を超える文献情報（11/25時点で30,348,625）
- 2018年だけで1,170,018件追加（3206件/日）
- 5200件を超える学術誌

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

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



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Duan Y, et al. Nature. 2019.

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Tardif JC, et al. N Engl J Med. 2019.

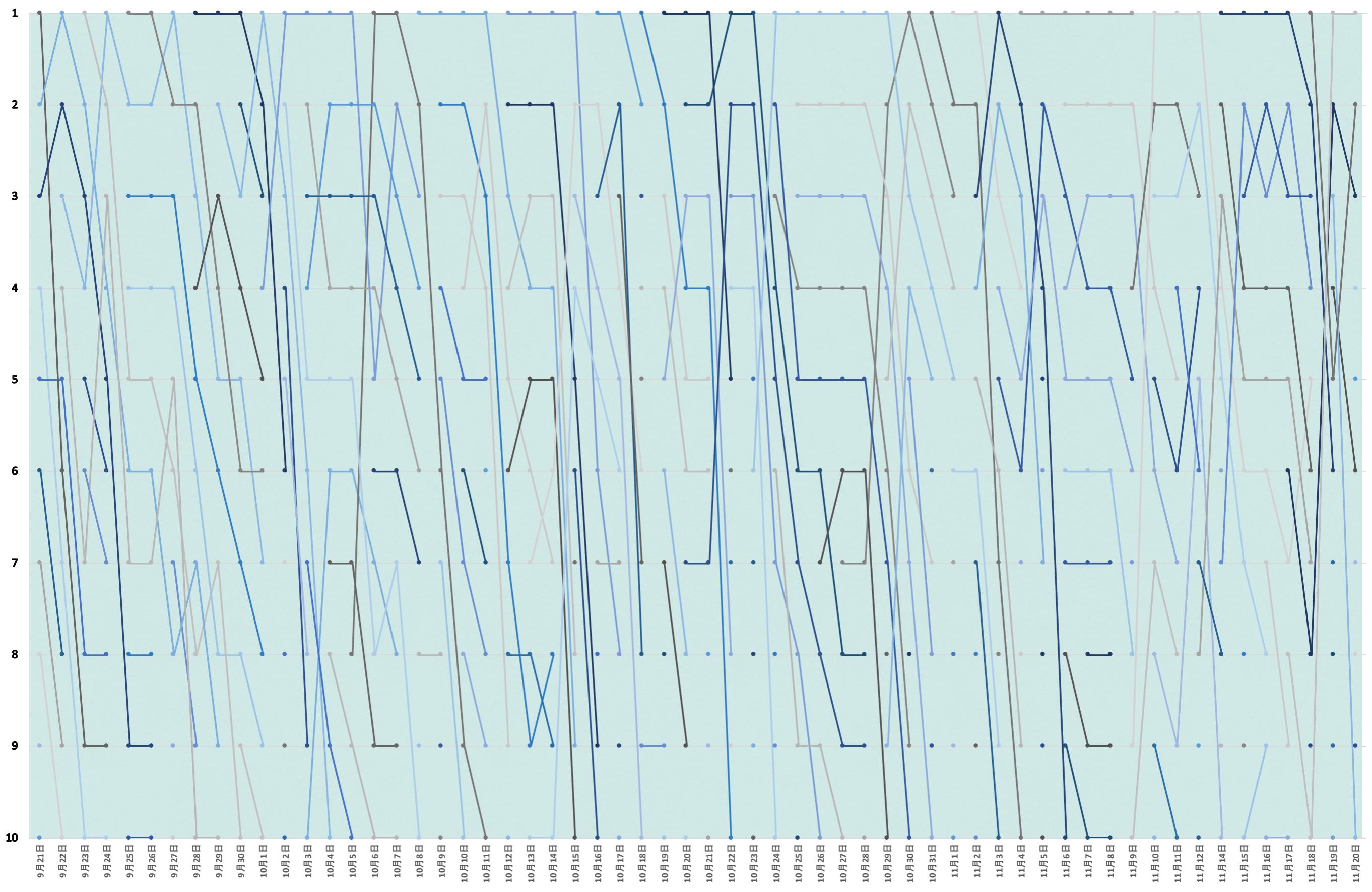
[Drug Development for Rare Paediatric Epilepsies: Current State and Future Directions.](#)
Auvin S, et al. Drugs. 2019.

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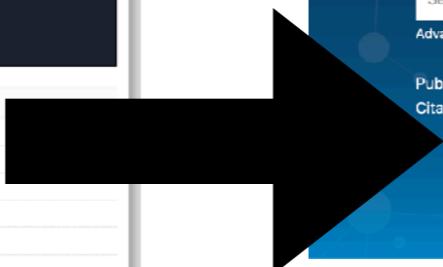
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- Blood (1)
- Cochrane Database Syst Rev (8)
- J Biol Chem (5)
- J Clin Oncol (1)
- JAMA (24)
- Lancet (16)
- Nature (4)
- PLoS One (44)

PubMed records with recent increases in activity

- Confinement of atomically defined metal halide sheets in a metal-organic framework. Nature. 2019.
- A view on drug resistance in cancer. Nature. 2019.
- A Comparison of Two LDL Cholesterol Targets after Ischemic Stroke. N Engl J Med. 2019.
- Efficacy and Safety of Low-Dose Colchicine after Myocardial Infarction. N Engl J Med. 2019.
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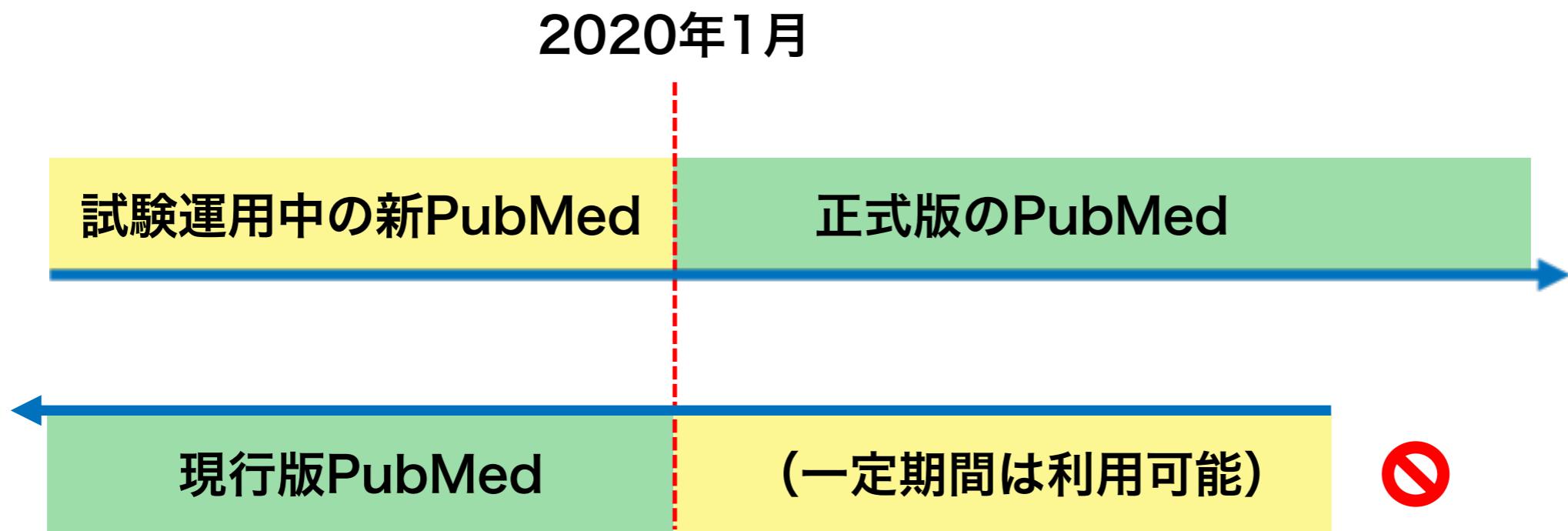
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2020年から大きく変わる



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



influenza virus



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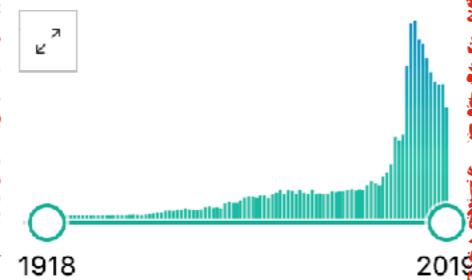
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- Associated data

ARTICLE TYPE

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

Influenza virus entry.

1 Luo M. *Adv Exp Med Biol* 2012 - Review. PMID 22297515

Hemagglutinin (HA) is a trimeric glycoprotein that is present in multiple copies in the membrane envelope of **influenza virus**. ...Inhibitors of **virus** entry are potentially effective antiviral drugs of **influenza viruses**....

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Influenza virus RNA polymerase: insights into the mechanisms of viral RNA synthesis.

2 Te Velthuis AJ and Fodor E. *Nat Rev Microbiol* 2016 - Review. PMID 27396566 Free PMC article.

The genomes of **influenza** viruses consist of multiple segments of single-stranded negative-sense RNA. Each of these segments is bound by the heterotrimeric viral RNA-dependent RNA polymerase and multiple copies of nucleoprotein, which form viral ribonucleoprotein (vRNP) complexes. ...In this Review, we discuss our current knowledge of the structure of the **influenza virus** RNA polymerase, and insights that have been gained into the molecular mechanisms of viral transcription and replication, and their regulation by viral and host factors. ...

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Emerging influenza viruses and the prospect of a universal influenza virus vaccine.

3 Krammer F. *Biotechnol J* 2015 - Review. PMID 25728134

The most effective countermeasure against **influenza virus** infection is the use of prophylactic vaccines. However, vaccines that are currently in use for seasonal **influenza** viruses have to be re-formulated and re-administered in a cumbersome process every year due to the antigenic drift of the **virus**. ...Recent efforts have focused on the development of broadly protective/universal

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influenza virus



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Review

> Nat Rev Microbiol, 14 (8), 479-93 Aug 2016

FULL TEXT LINKS

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Influenza Virus RNA Polymerase: Insights Into the Mechanisms of Viral RNA Synthesis

Aartjan J W Te Velthuis, Ervin Fodor + expand

PMID: 27396566 PMCID: PMC4966622 DOI: 10.1038/nrmicro.2016.87

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Abstract

The genomes of influenza viruses consist of multiple segments of single-stranded negative-sense RNA. Each of these segments is bound by the heterotrimeric viral RNA-dependent RNA polymerase and multiple copies of nucleoprotein, which form viral ribonucleoprotein (vRNP) complexes. It is in the context of these vRNPs that the viral RNA polymerase carries out transcription of viral genes and replication of the viral RNA genome. In this Review, we discuss our current knowledge of the structure of the influenza virus RNA polymerase, and insights that have been gained into the molecular mechanisms of viral transcription and replication, and their regulation by viral and host factors. Furthermore, we discuss how advances in our understanding of the structure and function of polymerases could help in identifying new antiviral targets.

Figures

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MeSH terms

- > Genome, Viral
- > Host-Pathogen Interactions
- > Humans
- > Influenza A virus / enzymology
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- > Influenza A virus / physiology
- > Influenza B virus / enzymology
- > Influenza B virus / physiology
- > Models, Molecular
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- > RNA Replicase / chemistry *
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- > RNA, Viral / biosynthesis *
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- > Ribonucleoproteins / genetics
- > Viral Proteins / genetics
- > Viral Proteins / metabolism
- > Virion / metabolism
- > Virus Replication / physiology *

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る
- ・ MEDLINEの代表的な特徴
- ・ セマンティックウェブにおけるデータ表現、RDFによる配布も

2020新登場

300近く (≒1%) のMeSHタームが新たに追加される

Ambient Intelligence

Augmented Reality

Blockchain

Internet of Things

Internet-Based Intervention

Smart Glasses

削除されるターム群

Fate of Descriptor Deletes for 2020 MeSH

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

*term not maintained in MeSH

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MeSH

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[Orthomyxoviridae](#)

1. A family of RNA viruses causing INFLUENZA and other diseases. There are five recognized genera: INFLUENZAVIRUS A; INFLUENZAVIRUS B; INFLUENZAVIRUS C; ISAVIRUS; and THOGOTOVIRUS.

Year introduced: 1981

[Hemagglutinin Glycoproteins, Influenza Virus](#)

2. Membrane glycoproteins from influenza viruses which are involved in hemagglutination, virus attachment, and envelope fusion. Fourteen distinct subtypes of HA glycoproteins and nine of NA glycoproteins have been identified from INFLUENZA A VIRUS; no subtypes have been identified for Influenza B or Influenza C viruses.

Year introduced: 1997

[Influenza A Virus, H3N8 Subtype](#)

3. A subtype of INFLUENZA A VIRUS comprised of the surface proteins hemagglutinin 3 and neuraminidase 8. The H3N8 subtype has frequently been found in horses.

Year introduced: 2006

[Influenza Vaccines](#)

4. Vaccines used to prevent infection by viruses in the family ORTHOMYXOVIRIDAE. It includes both killed and attenuated vaccines. The composition of the vaccines is changed each year in response to antigenic shifts and changes in prevalence of influenza virus strains. The flu vaccines may be mono- or multi-valent, which contains one or more INFLUENZAVIRUS A and INFLUENZAVIRUS B strains.

Year introduced: 2005 (1963)

[hemagglutinin fusogenic peptide, influenza virus \[Supplementary Concept\]](#)

5. based on the sequence of amino terminal 20 amino acids of influenza virus haemagglutinin; amino acid sequence in first source

Date introduced: July 3, 2002

[hemagglutinin HA-2 fusogenic peptide, Influenza virus \[Supplementary Concept\]](#)

6. augments gene transfer by transferrin-polylysine-DNA complexes toward a synthetic virus-like gene-transfer vehicle; has been sequenced

Date introduced: April 25, 2002

[INS1 protein, influenza virus \[Supplementary Concept\]](#)

7. stimulates translation of the M1 protein; amino acid sequence has been determined

Date introduced: March 16, 1994

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- epidemiology
- ethnology
- virology
- isolation and purification
- metabolism
- pathogenicity
- pathology
- pharmacology
- physiology
- radiation effects
- statistics and numerical data
- ultrastructure

(1)

(2)

 [Restrict to MeSH Major Topic](#). [Do not include MeSH terms found below this term in the MeSH hierarchy.](#)

Tree Number(s): B04.820.545

MeSH Unique ID: D009975

Entry Terms:

- Orthomyxoviruses
- Orthomyxovirus
- Influenza Viruses
- Influenza Virus
- Myxoviruses
- Myxovirus

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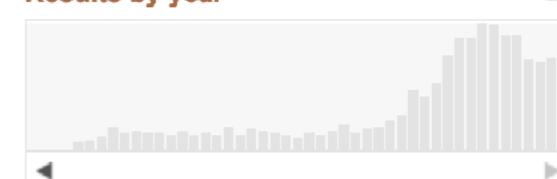
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Search results

Items: 1 to 20 of 5773

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 [Complete genome sequence of a novel reassortant H3N3 avian influenza virus.](#)

1. Le TB, Kim HK, Le HY, Jeong MC, Kim IK, Jeong DG, Yoon SW. Arch Virol. 2019 Nov;164(11):2881-2885. doi: 10.1007/s00705-019-04386-8. Epub 2019 Aug 27. PMID: 31456087 [Similar articles](#)

 [\[Genetic characterization of influenza A virus and assessment of vaccine efficacy in Yantai from 2014 to 2017\].](#)

2. Liu J, Xu YC, Sun ZL, Gao Q, Dong ZJ, Xu XW, Gong LF. Zhonghua Yu Fang Yi Xue Za Zhi. 2019 Aug 6;53(8):840-842. doi: 10.3760/cma.j.issn.0253-9624.2019.08.008. Chinese. PMID: 31378046 [Similar articles](#)

 [Rapid and simple colorimetric detection of multiple influenza viruses infecting humans using a reverse transcriptional loop-mediated isothermal amplification \(RT-LAMP\) diagnostic platform.](#)

3. Ahn SJ, Baek YH, Lloren KKS, Choi WS, Jeong JH, Antigua KJC, Kwon HI, Park SJ, Kim EH, Kim YI, Si YJ, Hong SB, Shin KS, Chun S, Choi YK, Song MS. BMC Infect Dis. 2019 Aug 1;19(1):676. doi: 10.1186/s12879-019-4277-8. PMID: 31370782 [Free PMC Article](#) [Similar articles](#)

 [NSP Protein Encoded in Negative NS RNA Strand of Influenza A Virus Induces Cellular Immune Response in Infected Animals.](#)

4. Zhirnov OP, Isaeva EI. Dokl Biochem Biophys. 2019 May;486(1):201-205. doi: 10.1134/S1607672919030128. Epub 2019 Jul 31. PMID: 31367821 [Similar articles](#)

 [Highly pathogenic avian influenza H7N9 viruses with reduced susceptibility to neuraminidase inhibitors showed comparable replication capacity to their sensitive counterparts.](#)

5. Tang J, Zhang J, Zhou J, Zhu W, Yang L, Zou S, Wei H, Xin L, Huang W, Li X, Cheng Y, Wang D. Virol J. 2019 Jul 2;16(1):87. doi: 10.1186/s12985-019-1194-9. PMID: 31266524 [Free PMC Article](#) [Similar articles](#)

 [Diversity and distribution of type A influenza viruses: an updated panorama analysis based on protein sequences](#)

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Results

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Influenza virus and atherosclerosis.
Peretz A, Azrad M, Blum A
QJM [01 Oct 2019, 112(10):749-755]
oedema, hypoxaemia and respiratory failure. **Influenza virus** primarily binds to the epithelium, interfering ... **influenza** A, 3.5-fold in respiratory syncytial **virus** and 2.7-fold for all other viruses). Our review
Cited: 0 times (PMID:30605546)

Evaluation of bioaerosol samplers for the detection and quantification of influenza virus from artificial aerosols and influenza virus-infected ferrets.
Bekking C, Yip L, Groulx N, Doggett N, Finn M, Mubareka S
Influenza Other Respir Viruses [21 Sep 2019, 13(6):564-573]
to collect **influenza virus** RNA and infectious **virus**, we aerosolized H1N1 and H3N2 **influenza** viruses into ... Six-month-old male **influenza virus**-free ferrets (Triple F farms) were screened for **influenza** A and B **virus** antibodies
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Comparative Pathogenicity and Transmissibility of the H7N9 Highly Pathogenic Avian Influenza Virus and the H7N9 Low Pathogenic Avian Influenza Virus in Chickens.
Yu H, Zhang K, Ye X, Wang W, Wu W, Wang X, Guan Y, He Z, Wang Y, Jiao P
Viruses [10 Nov 2019, 11(11)]
infecting >1000 people. The H7N9 low pathogenic **influenza virus** was inserted into four amino acids in the HA ... There were five outbreaks of H7N9 **influenza virus** in humans in China since it emerged in 2013, infecting
Cited: 0 times (PMID:31717632)

Is a Universal Influenza Virus Vaccine Possible?
Nachbagauer R, Palese P

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Feedback

ベータ版試行中

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Search worldwide, life-sciences literature

influenza virus Search Advanced Search

E.g. "breast cancer" HER2 Smith J

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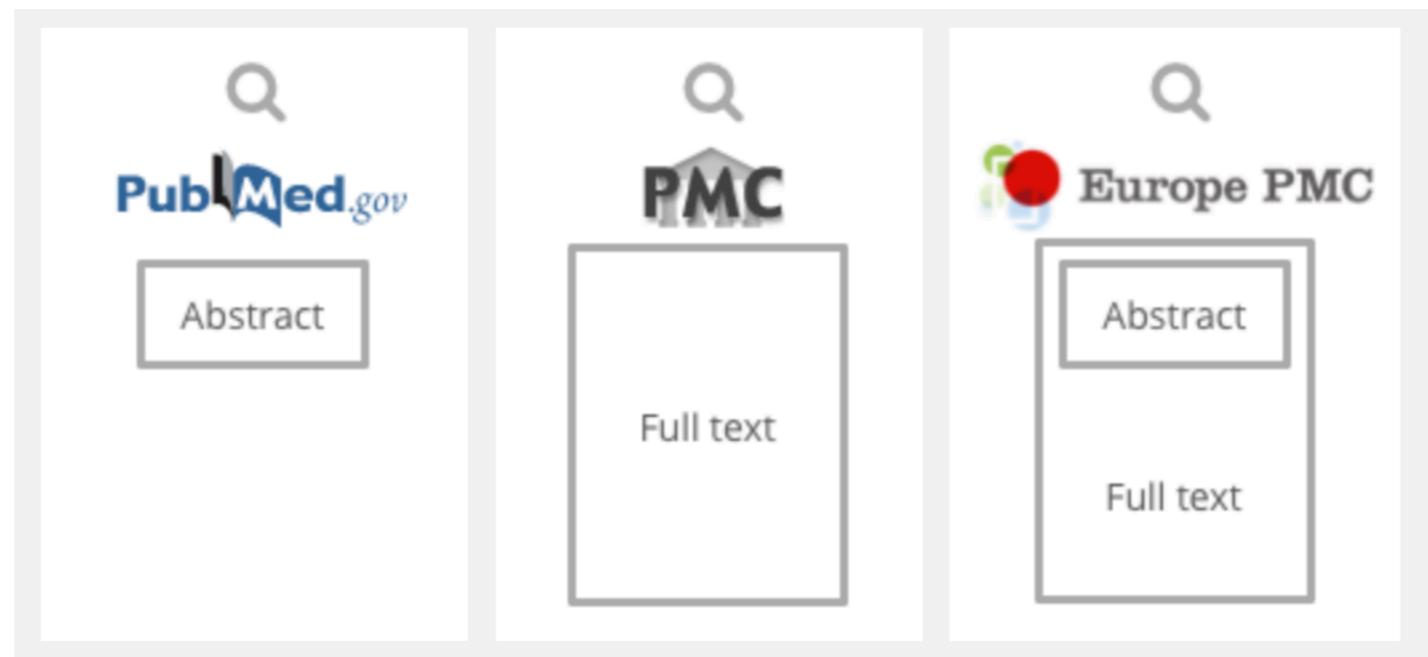
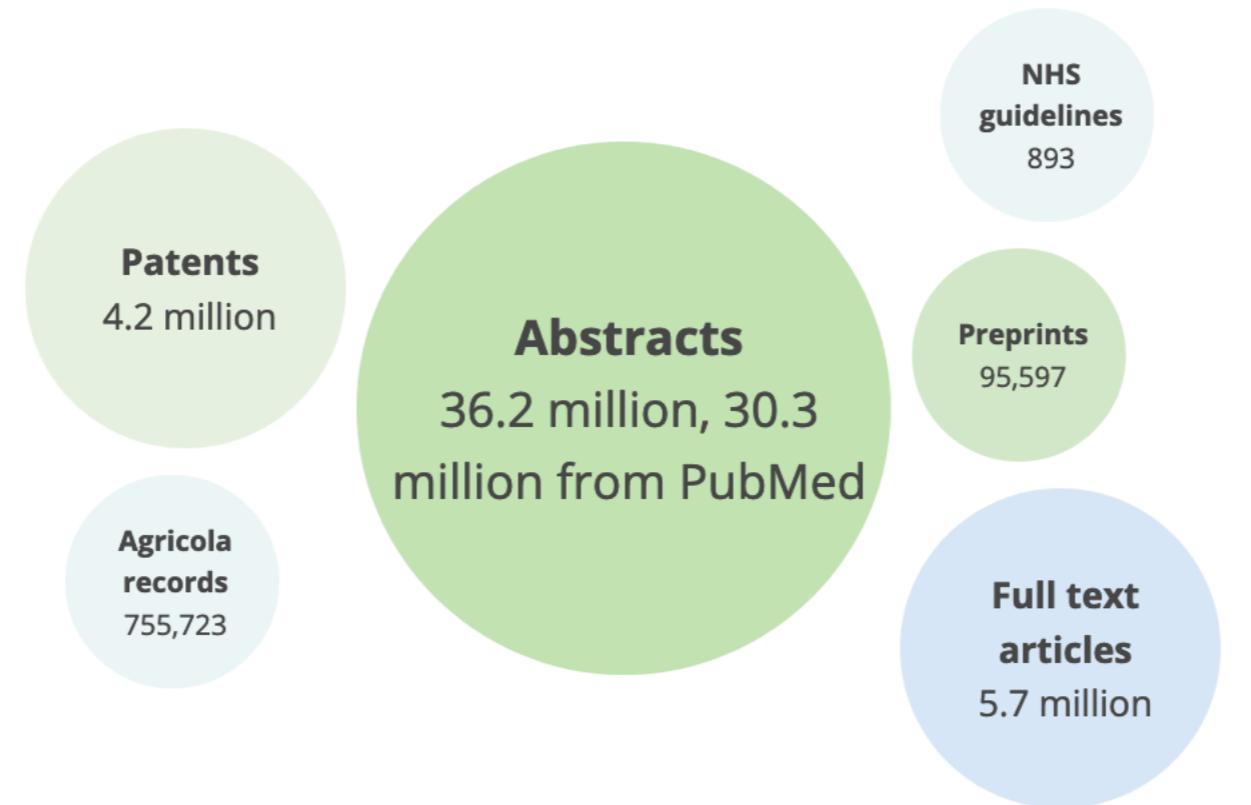
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Influenza virus and atherosclerosis.
Peretz A, Azrad M, Blum A
QJM, 112(10):749-755, 01 Oct 2019
oedema, hypoxaemia and respiratory failure. Influenza virus primarily binds to the epithelium, interfering... influenza A, 3.5-fold in respiratory syncytial virus and 2.7-fold for all other viruses). Our review
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Evaluation of bioaerosol samplers for the detection and quantification of influenza virus from artificial aerosols and influenza virus-infected ferrets.
Bekking C, Yip L, Groulx N, Doggett N, Finn M, Mubareka S
Influenza Other Respir Viruses, 13(6):564-573, 21 Sep 2019
to collect influenza virus RNA and infectious virus, we aerosolized H1N1 and H3N2 influenza viruses into... Six-month-old male influenza virus-free ferrets (Triple F farms) were screened for influenza A and B virus antibodies
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Yu H, Zhang K, Ye X, Wang W, Wu W, Wang X, Guan Y, He Z, Wang Y, Jiao P Feedback



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Cells. 2019 Jul; 8(7): 654.
Published online 2019 Jun 29. doi: [10.3390/cells8070654](https://doi.org/10.3390/cells8070654)
PMCID: PMC6679168
PMID: 31261944

Viroporins in the Influenza Virus

Janet To and Jaume Torres*

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Abstract

Influenza is a highly contagious virus that causes seasonal epidemics and unpredictable pandemics. Four influenza virus types have been identified to date: A, B, C and D, with only A-C known to infect humans. Influenza A and B viruses are responsible for seasonal influenza epidemics in humans and are responsible for up to a billion flu infections annually. The M2 protein is present in all influenza types and belongs to the class of viroporins, i.e., small proteins that form ion channels that increase membrane permeability in virus-infected cells. In influenza A and B, AM2 and BM2 are predominantly proton channels, although they also show some permeability to monovalent cations. By contrast, M2 proteins in influenza C and D, CM2 and DM2, appear to be especially selective for chloride ions, with possibly some permeability to protons. These differences point to different biological roles for M2 in types A and B versus C and D, which is also reflected in their sequences. AM2 is by far the best characterized viroporin, where mechanistic details and rationale of its acid activation, proton selectivity, unidirectionality, and relative low conductance are beginning to be understood. The present review summarizes the biochemical and structural aspects of influenza viroporins and discusses the most relevant aspects of function, inhibition, and interaction with the host.

Keywords: influenza virus, matrix protein 2 (M2), viroporins, ion channel inhibition, protein–protein interactions

1. Introduction

1.1. Influenza Viruses

Influenza viruses are enveloped, segmented, negative-sense RNA viruses belonging to

?

Highlight 228 terms

Accession Numbers (2)

UniProt (1)
uniprot (1)

Genes/Proteins (10 of 82)

AM2 (1 / 81) Next >
BM2 (1 / 44) Next >
CM2 (1 / 28) Next >
His37 (1 / 26) Next >
PB1-F2 (1 / 10) Next >
CFTR (1 / 8) Next >
TRAPP6A (1 / 7) Next >
Amt (1 / 6) Next >
UBR4 (1 / 6) Next >
LC3 (1 / 5) Next >
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Diseases (9)

influenza (1 / 30) Next >
Influenza (1 / 12) Next >
infection (1 / 8) Next >
infect (1 / 4) Next >
infections (1 / 1) Next >
infects (1 / 1) Next >
erythroleukemia (1 / 1) Next >
hemolysis (1 / 1) Next >
pulmonary edema (1 / 1) Next >

Organisms (10 of 21)

IBV (10)
humans (9)
Xenopus (6)

隨時更新、オープン、フリー



文献で使われる略語を検索



文献で使われる英語表現を検索



引用情報の検索

Allie (アリー)



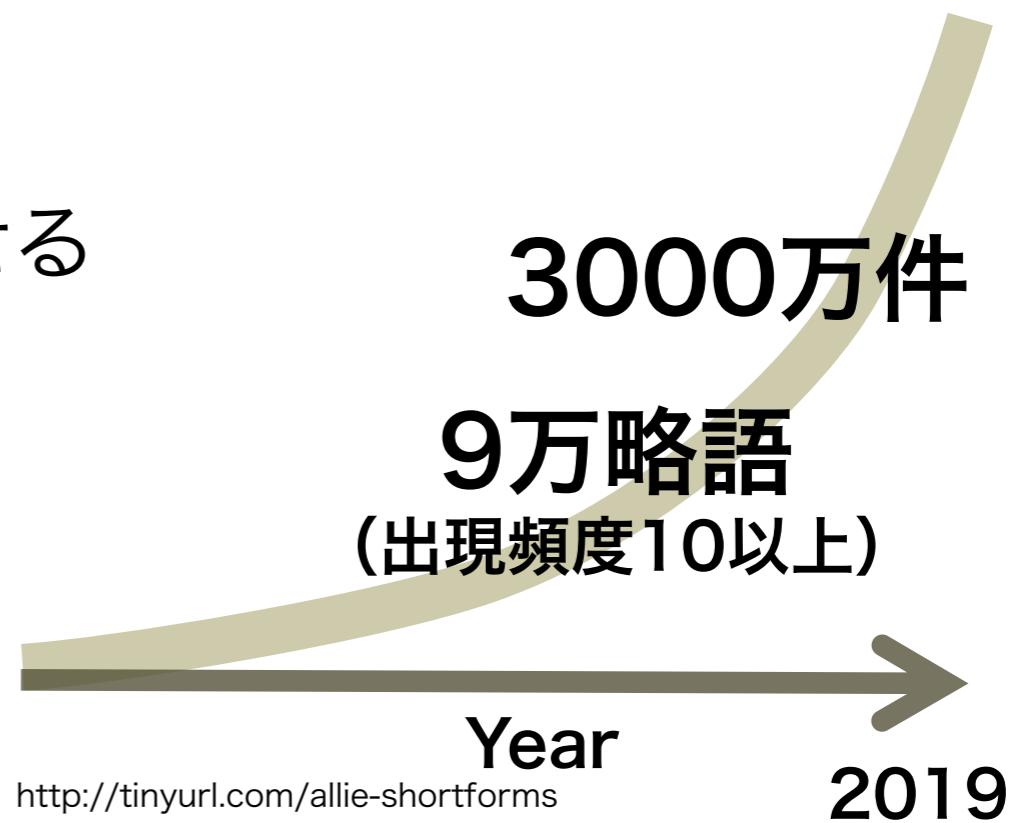
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danmachold

生命科学分野の文献中には 略語が多い

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



生命科学系の略語を簡単に調べ る方法はないか？



最新の略語と出典を含めて



Allieがお手伝いします!

Allie

- 日本語訳があれば提示
reactive oxygen species / 活性酸素種, 反応性酸素生成物
- よく使われる分野を提示、絞り込みも可能
Biochemistry / 生化学, 生物化学
- 出現文献情報を提示
ROS - (1980) Evidence for both oxygen and non-oxygen dependent mechanisms of antibody sensitized target cell lysis by human monocytes.
- 同じ文献で使われている他の略語 (共起略語) も提示
ROS -SOD, NO, NAC, ...

Allie A Search Service for Abbreviation / Long Form

■ 検索結果 - 略語 : SPF

検索条件:

検索語: **SPF**

検索方法: **完全一致**

主な研究分野:

(Any)
獣医学
新生物, 腫瘍
皮膚科学
生化学, 生物化学
耳鼻咽喉科, 耳鼻科, 耳鼻咽喉科学, 耳鼻科学
眼科学

結果:

略語: **SPF**

出現頻度: **2873**

対応する展開形の数: **202**

表示設定:

[件数]

展開形100件(出現頻度降順)

展開形全件

[1ページの件数]

20

ページ移動

◀ ▶ ▷ ▸

1 / 5 ページ

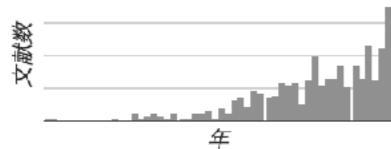
展開形 No.	展開形	主な研究分野	共起略語	PubMed/MEDLINE情報 (発表年, 題目)
1	specific pathogen-free 特定病原体除去 (1514回)	Veterinary Medicine 獣医学 » (630回)	GF (132回) IBDV (58回) NDV (58回) »	1961 Swine repopulation. IV. Influence of management upon the growth of specific pathogen- free (SPF) pigs. »
2	S-phase fraction (491回)	Neoplasms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

Allie A Search Service for Abbreviation / Long Form

■ 略語／展開語 : SPF/sun protection factor

[関連PubMed/MEDLINE情報]

合計出現文献数: 435



[表示件数]

100 件 (発表年降順)

100 件 (発表年昇順)

[>> 全件](#)

[1ページの表示件数]

20

ページ移動

◀ ▶

1 / 5 ページ

略語: **SPF** ([>> 共起略語](#))

展開形: **sun protection factor**

日焼け止め指数, 紫外線防御指数

DBpediaへのリンク

LSD RDFへのリンク

略語バリエーション

展開形バリエーション

ペア(略語／展開形)バリエーション

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

計算機を用いて自動的に抽出

> Nature 2019 Oct 21[Online ahead of print]

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

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

PMID: 31634902 DOI: 10.1038/s41586-019-1711-4

prime editing RNA - pegRNA

Abstract

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

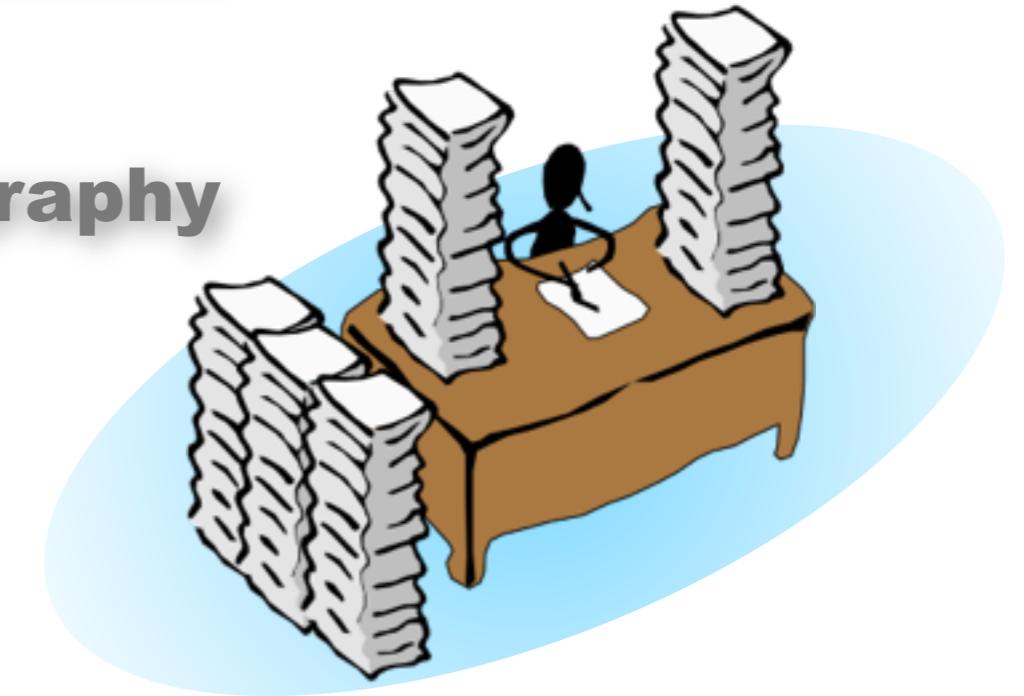


約3000万件

**reactive oxygen species
ROS**

**high-performance liquid chromatography
FTIR**

**superoxide dismutase
SOD**



PubMedに含まれる全文献情報を対象に抽出

約2322万ペア
(unique: 396万)

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

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

発展的な利用

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



Allie A Search Service for Abbreviation / Long Form

■ 略語／展開形の検索

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

[検索語] (略語、展開形、もしくはそれらの一部)

検索

リセット

[[ヘルプ](#)] [[略語一覧](#)]

["SPF"で試す](#) [検索オプション](#)

Allieとは？

Allie(アリー)は生命科学分野において利用されている略語とその展開形を検索するサービスです。文献中に多く出現する略語は多義語であることが多く、特に専門外の読者には理解するのに困難を伴うことがあります。Allieはこの問題に対する一つの解となるよう開発されています。Allieは米国国立保健図書館(National Library of Medicine, NLM)の生物医学文献データベース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西ビタ妙色レコード略語レコードの展開形を検索！

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略語のアリー

検索

動画チュートリアル

Allieの使い方を動画で解説しています。[こちら](#)をご覧ください。

新着情報ブログ

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

関連文献

Allieの詳細については下記の文献を参照してください。:

Y. Yamamoto, A. Yamaguchi, H. Bono and T. Takagi, "Allie: a database and a search service of abbreviations and long forms.", Database, 2011;bar03.
[PubMed Entry](#) | [Full text paper available](#)

また、AllieはALICEという、PubMedデータから略語とその展開形の組を抽出するツールを利用しています。詳細は下記の文献を参照してください。:
H. Ao and T. Takagi, "ALICE: an algorithm to extract abbreviations from MEDLINE.", J Am Med Inform Assoc., 2005 Sep-Oct;12(5):576-86.
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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



順位	略語	件数	頻度
2	hES	38	14203
3	ESCs	36	524
4	EBs	30	2874
5	MEFs	30	1076
6	EB	23	1972
7	MSCs	21	5253
8	ESC	20	12897
9	PD	20	2359
10	RPE	20	54878
11	hESCs	19	9036
12	iPSCs	18	2105
13	hESC	17	1016
14	hESCs	17	2567
15	NPCs	13	4036
16	Ad	12	2018
17	hESCs	12	2221

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。

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

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

生命科学系の文献では非常に多くの略語が使われており、同じ表記でも全く違う意味を示していることが少なくありません。

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

► 見どころダイジェスト

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

Allieデータベースへの SPARQL検索結果例

研究分野がVirologyである文献中に出現する略語

頻度	略語	展開形	対訳
15990	HIV-1	human immunodeficiency virus type 1	ヒト免疫不全ウイルス1型
7603	RT	reverse transcriptase	逆転写酵素
7351	HSV	herpes simplex virus	単純ヘルペスウイルス, 単純疱疹ウイルス
7183	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
6576	HSV-1	herpes simplex virus type 1	単純ヘルペスウイルス1型
5938	HA	hemagglutinin	ヘマグルチニン, 血球凝集素, 赤血球凝集素
5142	HCMV	human cytomegalovirus	ヒトサイトメガロウイルス
4963	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
4132	VZV	varicella-zoster virus	水痘・帯状疱疹ウイルス, 水痘帯状疱疹ウイルス
3310	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

UniProtとの連合検索例



		japaneseLabelStr
	.org/uniprot/O73683	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
	.org/uniprot/Q51S80	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString
"Amyloid precursor protein"	xsd:string	"アミロイド前駆体タンパク質" http://www.w3.org/1999/02/22-rdf-syntax-ns#langString

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

```

1 PREFIX up:<http://purl.uniprot.org/core/>
2 PREFIX rdfs:<http://www.w3.org/2000/01/rdf-schema#>
3 PREFIX rdf:<http://www.w3.org/1999/02/22-rdf-syntax-ns#>
4 PREFIX allie:<http://purl.org/allie/ontology/201108#>
5 SELECT
6     ?englishLabelStr ?protein ?japaneseLabelStr
7 WHERE {
8     BIND("アミロイド前駆体タンパク質" @ja AS ?japaneseLabelStr)
9     SERVICE<http://data.allie.dbcls.jp/sparql>{
10
11         ?x rdfs:label ?japaneseLabelStr ;
12             rdfs:label ?englishLabel .
13             FILTER(lang(?englishLabel) = "en")
14     }
15     BIND (STR(?englishLabel) AS ?englishLabelStr)
16     ?protein a up:Protein .
17     {
18         ?protein (up:recommendedName|up:alternativeName) ?structuredName .
19     }
20 UNION
21     {
22         VALUES (?partType){(up:domain) (up:component)}
23             ?protein ?partType ?part .
24             ?part (up:recommendedName|up:alternativeName) ?structuredName .
25     }
26     ?structuredName ?anyKindOfName ?englishLabelStr .
27     ?anyKindOfName rdfs:subPropertyOf up:structuredNameType .
28 }
```

SPARQL results:

englishLabelStr	japaneseLabelStr
"amyloid protein precursors"	"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
"	"アミロイド前駆体タンパク質"@ja
schema#>	"アミロイド前駆体タンパク質"@ja
-syntax-ns#>	"アミロイド前駆体タンパク質"@ja
/201108#>	"アミロイド前駆体タンパク質"@ja
Str	"アミロイド前駆体タンパク質"@ja
seLabelStr)	"アミロイド前駆体タンパク質"@ja
l>{	"アミロイド前駆体タンパク質"@ja

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

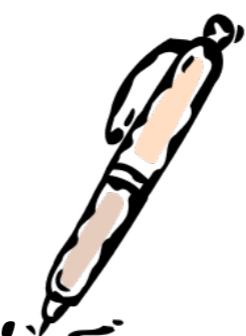
inMeXes (インメクセズ)



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

英作文中に出てくるわす悩み

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



is assaciated ...



inMeXesがお手伝いします!

inMeXes

- **高速**

PubMedに含まれる全ての題目、要旨中の表現を高速に検索

- **軽快**

3文字以上入力すると、キーを叩く毎に検索結果を表示

- **便利**

結果は頻度順、気になる表現をクリックすると関連情報を表示

関連情報例: PubMedアブス

トラクト中の表現

PMID	Location	Line	Sentence
14862	Abstract	5	The fall in serum calcium ion concentration was highly correlated with the rise in serum pH.
49375	Abstract	4	Body temperature was found to decline with advancing age and was highly correlated with thyroid function.
			For all samples the amount of lipoprotein released was highly correlated with the accumulation of deposited
65917	Abstract	12	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.
			(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).
133356	Abstract	7	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.
135383	Abstract	3	The maximum of V_f , the summated vector (V_f), was highly correlated with $VS1+R6$ ($r=0.84$).
147530	Abstract	2	MLC blocking particularly in the unidirectional culture against donor-stimulating cells, was highly correlated with the presence of complement-dependent cytotoxicity antibodies against donor B lymphocytes.
150082	Abstract	2	Unidirectional MLC blocking was highly correlated with a positive B-cell crossmatch.
169242	Abstract	2	The in vitro nuclear binding of all the analogues tested was highly correlated with their published thyromimetic potencies in the intact animals.
191473	Abstract	10	The rate of rise of plasma 25-OHD level was highly correlated with the dose used.
191551	Abstract	6	In these animals, plasma cholesterol concentration ranged from 100 to over 700 mg/dl and was highly correlated with LDL molecular weight and with the micromolar concentration of the LDL.
203920	Abstract	5	The calcium binding activity of these samples was approximately 0.9% per mg. protein and was highly correlated with CaBP concentration ($r=0.94$).
210440	Abstract	6	Total cholesterol was highly correlated with both beta- and alpha-lipoproteins; triglycerides were correlated with pre-beta-lipoproteins but inversely with alpha-lipoproteins.
218807	Abstract	5	In individual rats, the magnitude of the decrease in nuclear T3 receptor concentration was highly correlated with the decrease in tumor-free body weight.
234690	Abstract	7	However, the medial thickness of the small pulmonary arteries in control animals was highly correlated with the development of pulmonary hypertension and right ventricular hypertrophy in hypoxic animals.
268642	Abstract	3	The relative activity of these anionic dyes was highly correlated with their lipid solubility.
319288	Abstract	6	The frequency of recovery of <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

マッチ	関連語
距離	語
0.93	undefined
0.92	unclear
0.9	uncertain
0.85	elusive
0.85	unexplored
0.83	unresolved
0.83	controversial
0.82	obscure
0.81	debated
0.8	unrecognized
0.79	enigmatic
0.78	debatable
0.77	disputed
0.76	undetected
0.74	underappreciated
0.74	unrecognised
0.73	understood
0.73	unappreciated
0.73	questionable
0.72	uncommon

やや高度な使い方: 正規表現フィルタ

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

発展的な利用

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

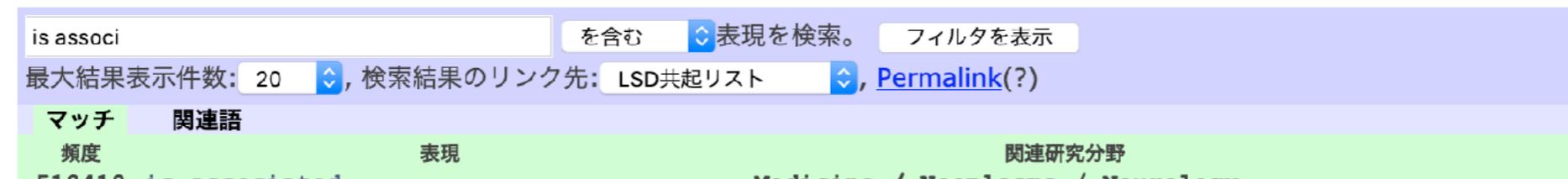
逐次PubMed表現検索 inMeXes

3文字以上入力すると検索が始めます。

(大文字小文字は区別されます。ハイphen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 associ" with a dropdown menu set to "を含む" (contains) and a button labeled "表現を検索" (Search Expression). Below the search bar are two dropdown menus: "最大結果表示件数" (Maximum result display count) set to 20, and "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), with a link to "Permalink(?)". The interface has three tabs at the bottom: "マッチ" (Match), "関連語" (Related words), and "頻度" (Frequency). The "表現" (Expression) tab is currently selected. The results table below shows a list of associations with their corresponding medical categories.

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

インメクセズ 検索

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

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

『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。



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

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\(NBDC\)](#)」の文献・データベースリストなどで確認できます。一度検索した表現の用例は、結果を再現しやすくするためにURL(Permalink)を動的に生成することができるので、検索結果のブックマークや共有に便利です。最近追加された機能として、検索した語と同様にPubMed内で出現する単語を確認することができるようになりました。名詞のほか、副詞など入力すると参考になる候補を表示することができます。

▶ 見どころダイジェスト

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

Colil (コリル)



<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？



Colilがお手伝いします!

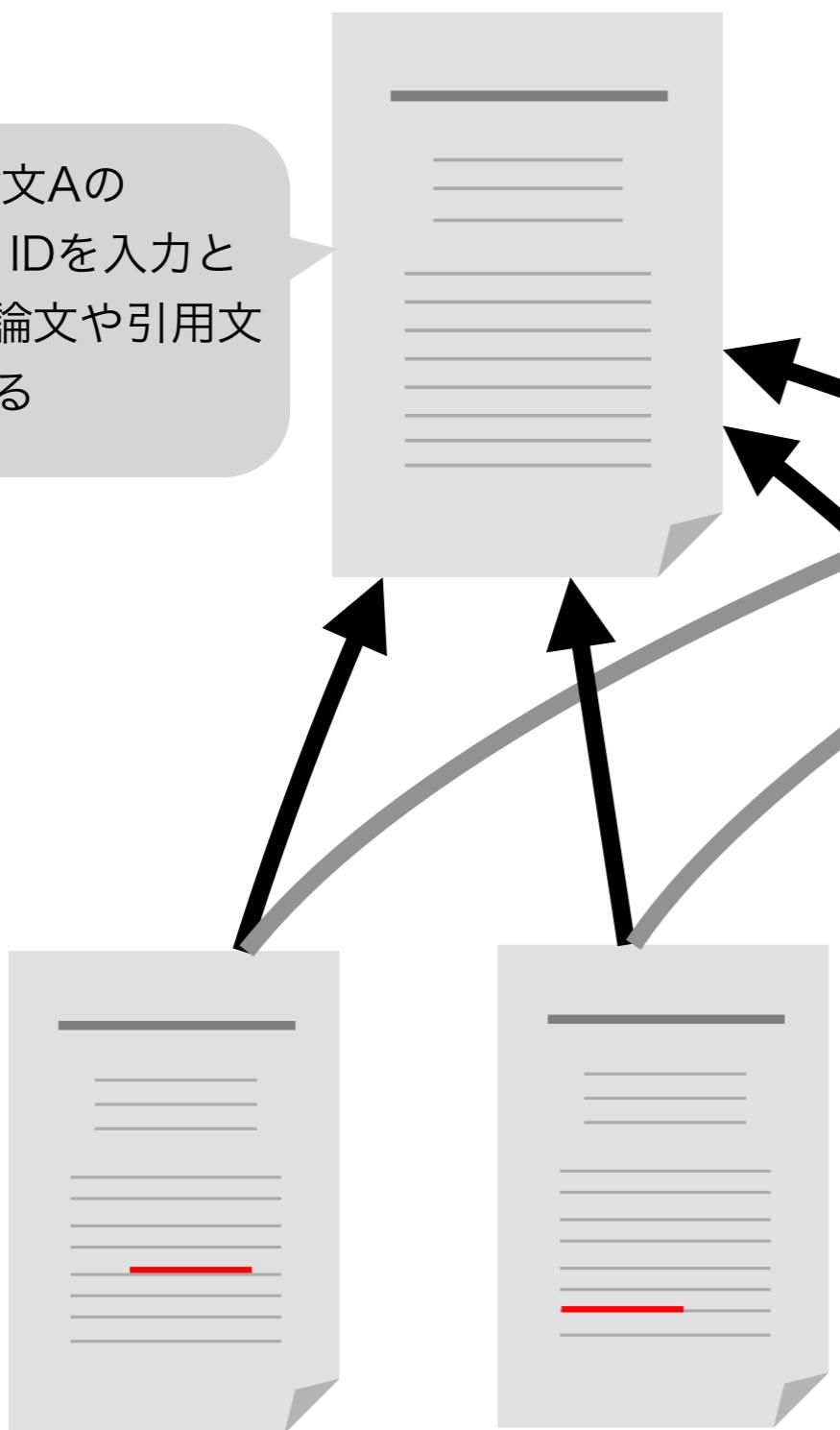
Colil

(Comments on literature in literature)

- 特定の論文について、その引用記述を検索します
- 特定の論文について、他の論文から共に引用されている論文を表示します
- 引用記述抽出対象はPMIDを持つPMC OA (Open Access) サブセットです
(約245万件、PubMed全体の8.2%程)
- 約1185万件のPMID付き文献がPMC OAサブセットから引用されています
(PubMed全体の1/3強)
- 現バージョンは2019年10月時点取得時のものです

引用される論文A

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



論文Aの関連論文群

論文Aを引用する論文
から引用される論文群

イラスト © 2016 DBCLS
TogoTV / CC-BY-4.0

論文Aを引用する関連論文群

PubMed IDかPubMed検索語を入力

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
23193287
「23193287」で試す

OR
キーワードを入力 (PubMed検索)
PubMedの検索オプションを利用することができる。たとえば apoptosis
1995:2000[dp] "J Biol Chem"[jour]
Keywords here
iPS 2006:2008[dp] "Cell"[jour]
で試す

入力後、エンターキーまたは"Search"ボタンを押してください。

関連論文
SPARQLクエリを表示
80 Basic local alignment search tool.
PubMed
42 Gapped BLAST and PSI-BLAST: a new generation of protein database search programs.
PubMed
41 MUSCLE: multiple sequence alignment with high accuracy and high throughput
PubMed

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

① PubMed ID
23193287 K, Karsch-Mizrachi I, Lipman DJ, Ostell J, Sayers EW Nucleic Acids Res. 2013 Jan;41(Database issue):D36-42.

あるいは the following papers.

② PubMed検索語
件数: 1 / 30ページ 次へ →
並べ替え year
SPARQLクエリを表示

31003499 9 PubMed PMC	Systems Biology and Multi-Omics Integration: Viewpoints from the Metabolomics Research Community. Pinu FR, Beale DJ, Paten AM, Kouremenos K, Swarup S, Schirra HJ, Wishart D Metabolites. 2019 Apr 18;9(4): multi-omics data integration In addition to these species-specific resources, there are also general multi-species resources on genes and proteins, such as GenBank and UniProt [103,104], multi-species collections on metabolites, such as ChEBI [105], and MetaboLights [106], multi-species collections on lipids, such as Lipid Maps [107], multi-species collections on proteomics or protein expression data, such as PRIDE
30809427 0 PubMed PMC	Pollen metabarcoding reveals broad and species-specific resource use by urban bees. Potter C, de Vere N, Jones LE, Ford CR, Hegarty MJ, Hodder KH, Diaz A, Franklin EL PeerJ. 2019;7:e5999. methods was used to search unique sequences against a custom BLAST database which consisted of all sequences from the Barcode Wales project (De Vere et al., 2012) alongside selected other sequences downloaded from GenBank (Benson et al., 2012). Results were manually filtered to remove plants that do not occur in the UK, based on Stace (2010), and Cubey & Merrick (2014).
30828338 0 PubMed PMC	Genome-Wide Associations of Chlorophyll Fluorescence OJIP Transient Parameters Connected With Soil Drought Response in Barley. Rapacz M, Wojcik-Jagla M, Fiust A, Kalaji HM, Koscielniak J Front Plant Sci. 2019;10:78. materials and methods gov/genbank/ (Benson et al., 2012). The identification of potential genes in the sequence of the barley genome was conducted by the ViroBLAST server at http:
30289528	IMG/M v.5.0: an integrated data management and comparative analysis system for microbial genomes and microbiomes.

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

 [「23193287」で試す](#)

OR

キーワードを入力 (PubMed検索)

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

 [「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](#)

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

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

- 643 [Embryonic stem cell lines](#)

Authors' Comment

 What do other papers say about a paper?

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

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

is cited by the following papers.

この論文を引用している著者は、

290ページ 次へ →

並べ替え year

✓ year
citedBy
section
title
pmid

これらの論文も併せて引用しています。

Pub	PM	results	The experimental protocol of reprogramming was outlined in Fig. 2A ²⁶ . Stem cell-like cells appeared around day 12.
31293366	0	All Together Now: Modeling the Interaction of Neural With Non-neural Systems Using Organoid Models.	Chukwurah E, Osmundsen A, Davis SW, Lizarraga SB Front Neurosci. 2019;13:582.
31295264	0	introduction	The seminal work by Gurdon (Gurdon et al., 1958; Gurdon, 1960) and the group of Shinya Yamanaka (Takahashi and Yamanaka, 2006; Takahashi et al., 2007) to revert an adult somatic cell to an embryonic state by nuclear reprogramming set the stage for the massive expansion in the use of human induced pluripotent stem cell (iPSC) derived models.
		2-CI-C.OXT-A stimulates contraction through the suppression of phosphodiesterase activity in human induced pluripotent stem cell-derived cardiac organoids.	

発展的な使い方

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

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ることができます。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。

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: 5799, 20 (1ページの件数, 1 / 290ページ 次へ → 並べ替え year SPARQLクエリを表示

31287022 0 PubMed PMC	High-content screen in human pluripotent cells identifies miRNA-regulated pathways controlling pluripotency and differentiation. de Souza Lima IM, Schiavonato JLDS, Paulino Leite SB, Sastre D, Bezerra HLO, Sangiorgi B, Corveloni AC, Thome CH, Faca VM, Covas DT, Zago MA, Giacca M, Mano M, Panepucci RA Stem Cell Res Ther. 2019 Jul 08;10(1):202.
background	A set of core transcription factors (TFs), including OCT4, SOX2, KLF4, and c-MYC (OSKM), sustains pluripotency in ESCs [2, 3] and can reprogram somatic cells into induced pluripotent stem cells (iPSCs) [4, 5].
31289326	Mitochondrial Akt Signaling Modulated Reprogramming of Somatic Cells.

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検索

543 Emoryonic stem cell lines derived from human blastocysts. PubMed	cell-derived cardiac organoids. Kitsuka T, Itoh M, Amamoto S, Arai KI, Oyama J, Node K, Toda S, Morita S, Nishida T, Nakayama K PLoS One. 2019;14(7):e0213114.
548 Generation of germline-competent induced pluripotent stem cells. PubMed	discussion Takahashi and Yamanaka reported a method for reprogramming fully differentiated fibroblasts derived from the tissues of adult or fetal mice to make cells similar to ES cells [31]. The availability of human cardiac myocytes with differentiated pluripotent stem cells offers a new opportunity to construct in vitro models of heart disease [32], conduct drug screening for new drugs [33], and apply cardiac therapy to
395 In vitro reprogramming of fibroblasts into a pluripotent ES-cell-like state. PubMed	The transcription factor Hey and nuclear lamins specify and maintain cell identity. Flint Brodsky N, Bitman-Lotan E, Boico O, Shafat A, Monastirioti M, Gessler M, Delidakis C, Rincon-Arano H, Orian A Elife. 2019;716:8..
385 Establishment in culture of pluripotential cells from mouse embryos. PubMed	introduction transfer and reprogramming of differentiated fibroblasts into pluripotent cells (iPS) have changed the classical view of a rigid 'terminally-differentiated' cell state to a more plastic one (Gurdon, 1962; Takahashi and Yamanaka, 2006; Morris, 2016), suggesting that once established, differentiated cells must actively maintain their identities (Blau and Baltimore, 1991; Natoli, 2010; Holmberg and Perlmann, 2012; Bitman-Lotan and Orian, 2018).
322 Reprogramming of human somatic cells to pluripotency with defined factors. PubMed	introduction Generation of iPSCs by Nonintegrative RNA-Based Reprogramming Techniques: Benefits of Self-Replicating RNA versus Synthetic mRNA. Steinle H, Weber M, Behring A, Mau-Holzmann U, Schlensak C, Wendel HP, Avci-Adali M Stem Cells Int. 2019;2019:7641767.
321 Direct conversion of fibroblasts to functional neurons by defined factors. PubMed	introduction somatic cells into induced pluripotent stem cells (iPSCs) is mediated by the exogenous delivery of the "Yamanaka" factors Oct4, Klf4, Sox2, and cMyc, and it allows the generation of an unlimited stem cell source for tissue regeneration [1–3]. In the first studies, retroviral vectors were used to deliver the reprogramming factors into cells.
296 Core transcriptional regulatory circuitry in human embryonic stem cells. PubMed	Mitochondrial Akt Signaling Modulated Reprogramming of Somatic Cells. Chen YH, Su CC, Deng W, Lock LF, Donovan PJ, Kayala MA, Baldi P, Lee HC, Chen Y, Wang PH Sci Rep. 2019 Jul 09;9(1):9919.
286 Generation of induced pluripotent stem cells without Myc from mouse and human fibroblasts. PubMed	discussion Using the four factors, Oct4, Sox2, Klf4, and c-Myc, iPSCs were recreated from somatic cells [26]. Subsequently, various laboratories developed different protocols and vehicles to produce iPSCs by genetically manipulating

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 search interface. At the top, there's a search bar with a play button icon and a placeholder "Input a PubMed ID". Below it, a search field contains "Try : IPS 2006:2008[dp] *Cell*[jour]". To the right, there's a message: "Colilを使って論文の引用情報を検索するトルや Authors' Comment What do other papers say about a paper? PubMed、PMCページへのリンク、後で見る 共有 引用記述を含むセクション名を閲覧できます。". The main content area displays a list of references from PubMed and PMC, each with a small video camera icon indicating a video summary. The references include:

- 16942632 Unraveling the transcriptional network controlling ES cell pluripotency. (PubMed)
- 16966416 The action behind the words: embryonic stem cell research marches on. (PubMed)
- 17389240 Frequent and specific immunity to the embryonal stem cell-associated antigen SOX2 in patients with monoclonal gammopathy. (PubMed)
- 17389240 Frequent and specific immunity to the embryonal stem cell-associated antigen SOX2 in patients with monoclonal gammopathy. (PubMed)
- 17506876 Silencing of core transcription factors in human EC cells highlights the importance of autocrine FGF signaling for self-renewal. (PubMed)
- 17531091 Differential development of neuronal physiological responsiveness in two human neural stem cell lines. (PubMed)
- 111 Core transcriptional regulatory circuitry in

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Questions?

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