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山本 泰智

ライフサイエンス統合データベースセンター



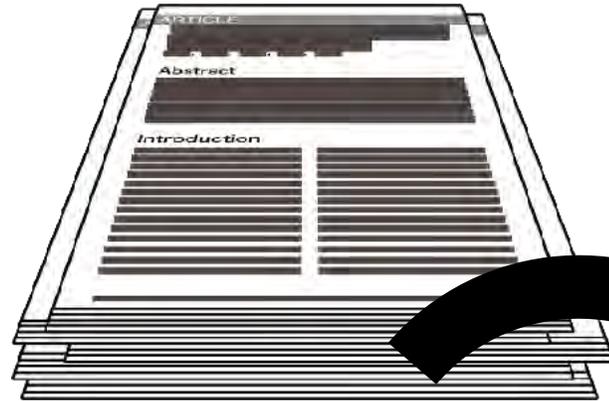
生命科学のデータベースをオンラインで

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文献情報



文献



PubMed

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



The screenshot shows a web browser window displaying the NLM Technical Bulletin website. The page title is "NLM TECHNICAL BULLETIN" and the subtitle is "U.S. NATIONAL LIBRARY OF MEDICINE | NATIONAL INSTITUTES OF HEALTH". The URL in the address bar is "www.nlm.nih.gov/pubs/techbull/mj16/mj16_pm...". The page content includes a search bar, navigation links for "Current Issue", "Previous Issues", "About", and "Stay Current", and a "Table of Contents: 2016 MAY-JUNE No. 410". The main article is titled "PubMed Celebrates its 20th Anniversary!" and is authored by Kathi Canese. The article text describes the history of PubMed, starting from its release in 1996 as an experimental database, the announcement of free MEDLINE access in 1997, and various updates and features over the years, including the redesign of the NCBI retrieval engine in 2007, the addition of a "recent activity" feature in 2009, and the launch of PubMed Mobile in 2010. The article concludes with a message of congratulations to PubMed on its 20th anniversary.

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Table of Contents: 2016 MAY-JUNE No. 410

PubMed Celebrates its 20th Anniversary!

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

2016 June 21 [posted]

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

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

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

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

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

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

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

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

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

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

By Kathi Canese
National Center for Biotechnology Information

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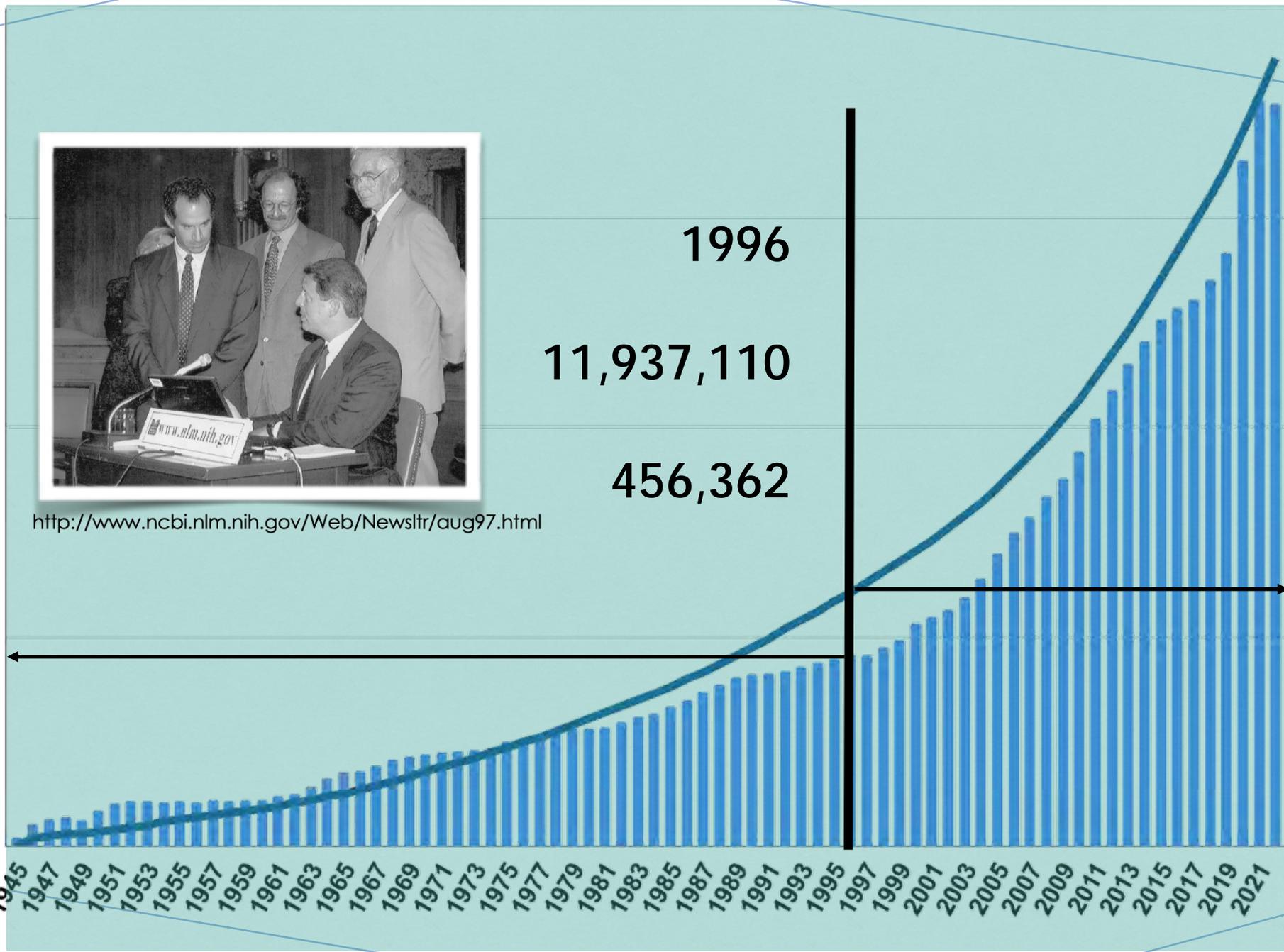
1996
11,937,110
456,362

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40
30
20
10
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1945 1947 1949 1951 1953 1955 1957 1959 1961 1963 1965 1967 1969 1971 1973 1975 1977 1979 1981 1983 1985 1987 1989 1991 1993 1995 1997 1999 2001 2003 2005 2007 2009 2011 2013 2015 2017 2019 2021

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現状

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21/6/17時点で32,682,784
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19/11/25時点で30,348,625
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Blood (3)
Cell (1)
Cochrane Database Syst Rev (2)
J Biol Chem (5)
J Clin Oncol (1)
JAMA (5)

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

2020年から

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[Narrowing the localization of the region breakpoint in most frequent Robertsonian translocations.](#)
Jarmuz-Szymczak M, et al. Chromosome Res. 2014. PMID: 25179263 [Free PMC article.](#)

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[Blood \(9\)](#)
[Cancer Res \(3\)](#)
[Cochrane Database Syst Rev \(3\)](#)
[J Biol Chem \(11\)](#)
[JAMA \(2\)](#)



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Last update: June 26, 2023

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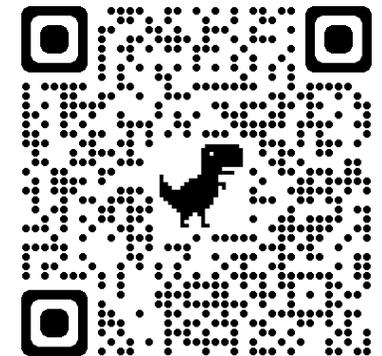
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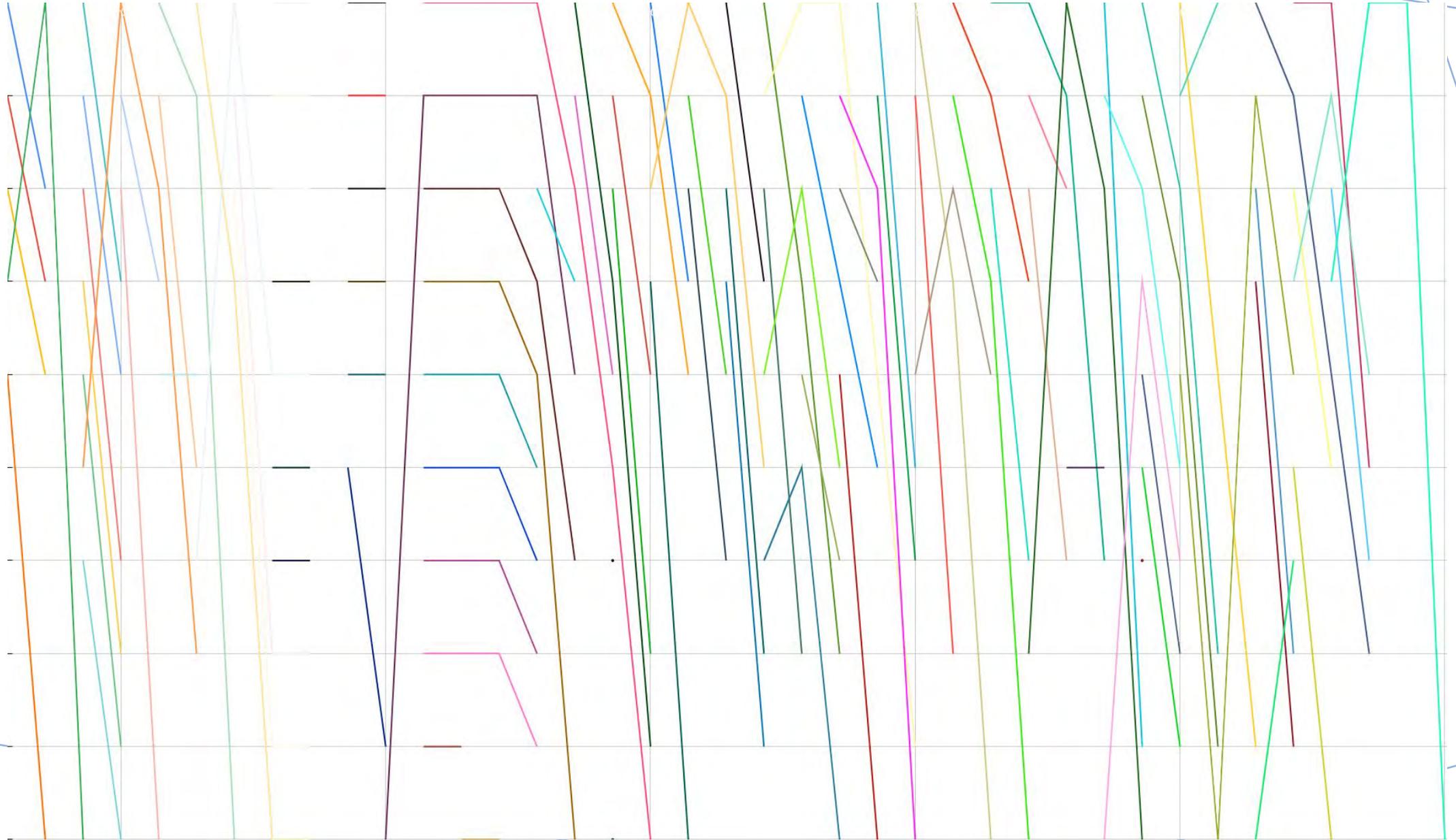
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Trending articlesのトレンド



Latest Literature

New articles from highly accessed journals

Blood (1)

Clin Infect Dis (4)

Cochrane Database Syst Rev (3)

J Clin Endocrinol Metab (5)

J Immunol (1)

JAMA (12)

Nature (17)

PLoS One (60)

Pediatrics (2)

Proc Natl Acad Sci U S A (3)



SARS-CoV-2

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

1 V'kovski P, Kratzel A, Steiner S, Stalder H, Thiel V.
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Mechanisms of SARS-CoV-2 entry into cells.

2 Jackson CB, Farzan M, Chen B, Choe H.
Cite Nat Rev Mol Cell Biol. 2022 Jan;23(1):3-20. doi: 10.1038/s41580-021-00418-x. Epub 2021 Oct 5.
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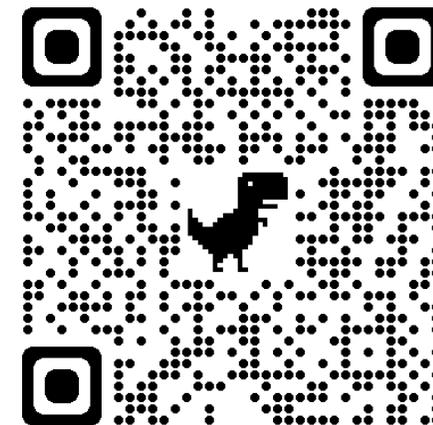
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SARS-CoV-2



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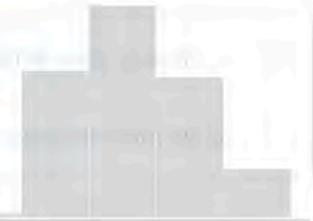
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2003

2018



[SARS-CoV]: 2. Modeling SARS epidemic

[Article in French]

Antoine Flahault ¹

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Conclusions: (1) SARS-CoV infection was confirmed by serological diagnosed pediatric SARS cases, which leads to the assumption that SARS requires more accurate and efficient ways, for example, screening SARS-CoV. (2) The proportion of the patients who had close contact antibody-positive cases was higher than that in antibody-negative (subclinical SARS CoV infection exists in children and adults, although The data of the present study did not confirm that SARS had subclinical who had close contact to pediatric SARS cases.

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

Yu Chen ¹, Ceyang Su, Min Ke, Xu Jin, Lirong Xu, Zhou Zhang, Andong Wu, Ying Sun, Zhouning Yang, Po Tien, Tero Ahola, Yi Liang, Xinqi Liu, Deyin Guo

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PMID: 22022266 PMCID: PMC3192843 DOI: 10.1371/journal.ppat.1002294

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Abstract

The 5'-cap structure is a distinct feature of eukaryotic mRNAs, and eukaryotic viruses generally modify the 5'-end of viral RNAs to mimic cellular mRNA structure, which is important for RNA stability, protein translation and viral immune escape. SARS coronavirus (SARS-CoV) encodes two S-adenosyl-L-methionine (SAM)-dependent methyltransferases (MTase) which sequentially methylate the RNA cap at guanosine-N7 and ribose 2'-O positions, catalyzed by nsp14 N7-MTase and nsp16 2'-O-MTase, respectively. A unique feature for SARS-CoV is that nsp16 requires non-structural protein nsp10 as a stimulatory factor to execute its MTase activity. Here we report the biochemical characterization of SARS-CoV 2'-O-MTase and the crystal structure of nsp16/nsp10 complex bound with methyl donor SAM. We found that SARS-CoV nsp16 MTase methylated m7GpppA-RNA but not m7GpppG-RNA, which is in contrast with nsp14 MTase that functions in a sequence-independent manner. We demonstrated that nsp10 is required for nsp16 to bind both m7GpppA-RNA substrate and SAM cofactor. Structural analysis revealed that nsp16 possesses the canonical scaffold of MTase and associates with nsp10 at 1:1 ratio. The structure of the nsp16/nsp10 interaction interface shows that nsp10 may stabilize the SAM-binding pocket and extend the substrate RNA-binding groove of nsp16, consistent with the findings in biochemical assays. These results suggest that nsp16/nsp10 interface may represent a better drug target than the viral MTase active site for developing highly specific anti-coronavirus drugs.

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

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

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PMID: 33116300 PMCID: [PMC7592455](#) DOI: [10.1038/s41579-020-00468-6](#)

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Abstract

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

Conflict of interest statement

The authors declare no competing interests.

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

Philip V'kovski, Annika Kratzel, Silvio Steiner, Hanspeter Stalder & Volker Thiel 

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Abstract

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

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[Nat Rev Microbiol.](#) 2020 Oct 28 : 1–16.

PMCID: PMC7592455

doi: [10.1038/s41579-020-00468-6](https://doi.org/10.1038/s41579-020-00468-6) [Epub ahead of print]PMID: [33116300](https://pubmed.ncbi.nlm.nih.gov/33116300/)**Coronavirus biology and replication: implications for SARS-CoV-2**Philip V'kovski,^{1,2} Annika Kratzel,^{1,2,3} Silvio Steiner,^{1,2,3} Hanspeter Stalder,^{1,2} and Volker Thiel^{1,2}[▶ Author information](#) ▶ [Article notes](#) ▶ [Copyright and License information](#) [Disclaimer](#)This article has been [cited by](#) other articles in PMC.**Abstract**Go to:

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

Subject terms: SARS-CoV-2, Virus-host interactions, Virus structures**Formats:**[Article](#) | [PubReader](#) | [ePub \(beta\)](#) | [PDF \(3.2M\)](#) | [Cite](#)**Share**[Facebook](#) [Twitter](#) [Google+](#)**Save items**[★ Add to Favorites](#)**Similar articles in PubMed**

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

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

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

Philip V'kovski^{1 2}, Annika Kratzel^{1 2 3},
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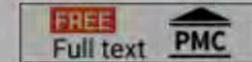
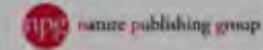
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CITE

V'kovski, Philip et al. "Coronavirus biology and replication: implications for SARS-CoV-2." *Nature reviews. Microbiology* vol. 19,3 (2021): 155-170. doi:10.1038/s41579-020-00468-6

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Coronavirus biology and the rise of SARS-CoV-2

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

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Abstract

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

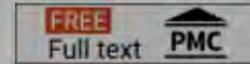
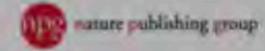
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Coronavirus biology and replication: implications for SARS-CoV-2.

1 V'kovski P, Kratzel A, Steiner S, Stalder H, Thiel V.

Cite Nat Rev Microbiol. 2021 Mar;19(3):155-170. doi: 10.1038/s41579-020-00468-6. Epub 2020 Oct 28.

PMID: 33116300 [Free PMC article.](#) [Review.](#)

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

2 Zheng J.

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

PMID: 32226285 [Free PMC article.](#) [Review.](#)

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The image shows a screenshot of a PubMed article page. The article title is "Coronavirus biology and replication: implications for SARS-CoV-2". The authors listed are "Vukobratovic D, Anonka A, Kuznetsov T, et al.". The abstract discusses the SARS-CoV-2 genome and its implications for replication and evolution. The page includes sections for Abstract, Conflict of interest statement, Figures, Similar articles, Cited by, and References. The PubMed logo is visible at the top left.

PAGE NAVIGATION

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Abstract

Conflict of interest statement

Figures

Similar articles

Cited by

References

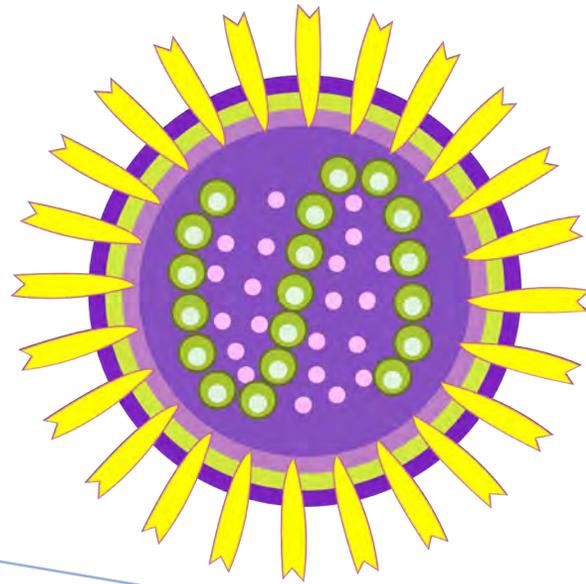
Publication types

MeSH terms

Substances

Related information

LinkOut - more resources



MeSH terms

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

MeSHタームの活用



MeSH (Medical Subject Headings) ターム

- 概念階層関係を持つ統制語彙（語彙数は3万弱）で毎年更新される
- PubMedに収載されてから1日程度で自動で付けられる
- PubMed検索時に利用することで効率良く目的の文献を見つけられる
- MEDLINEの代表的な特徴
- セマンティックウェブにおけるデータ表現、RDFによる配布も

2023新登場

262の新規ターム

D000093742 **Breakthrough Infections**

Treatment Emergent Infections|Vaccine Breakthrough Infections

D000093485 **COVID-19 Drug Treatment**

COVID-19 Drug Therapy|COVID19 Drug Therapy|COVID19 Drug Treatment|Coronavirus Disease 2019 Drug Treatment|Coronavirus Disease-19 Drug Treatment

D000094024 **Post-Acute COVID-19 Syndrome**

Long COVID|Long Haul COVID-19|Long-Haul COVID|Post Acute COVID-19 Syndrome|Post-Acute Sequelae of SARS-CoV-2 Infection|Post-COVID Conditions

D000093743 **Random Forest**

Random Forest Algorithm|Random Forest Classification

D000092003 **Artificial Life**

D000092682 **Motion Capture**

Biomechanical Movement Capture|Magnetic Motion Capture|MoCap

D000093983 **Information Sources**

Data Source|Data Sources|Information Source|Source of Information

D000094362 **Sleep Duration**

Sleep Quantity|Total Sleep Time

D000095028 **Multionics**

Multi-Omics

D000093846 **Sophora japonica**

Chinese Scholar Tree|Japanese Pagoda Tree|Styphnolobium japonicum

Population Groups [M01.686] -

African People [M01.686.254] +

Asian People [M01.686.330] +

Black People [M01.686.372] +

Caribbean People [M01.686.413]

Central American People [M01.686.429] +

European People [M01.686.445] +

Middle Eastern and North Africans [M01.686.461] +

North American People [M01.686.477] +

Oceanians [M01.686.493] +

South American People [M01.686.685] +

White People [M01.686.877] +

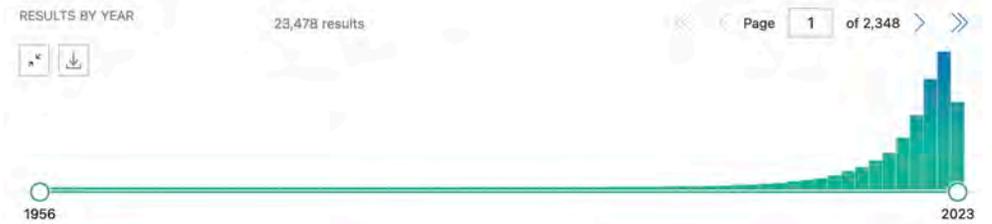
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出典: フリー百科事典『ウィキペディア (Wikipedia)』

この項目では、植物のエンジュ（槐）について説明しています。

- その他の槐については「**槐**」をご覧ください。
- ポケットモンスターシリーズに登場するエンジュシティについては「**ジョウト地方**」をご覧ください。

「**鉛樹**」、「**縁寿**」、あるいは「**延寿**」とは異なります。

エンジュ（槐^[5]、学名: *Styphnolobium japonicum*^[注 1]）は**マメ亜科****エンジュ属**の**落葉高木**。中国原産。日本には古くに渡来し、花蕾や莢は生薬にして役立てられた。

特徴 [編集]

中国原産で、古くから**台湾**、**日本**、**韓国**などで植栽されている。日本へは8世紀には渡来していたとみられ^[5]、和名は古名えにすの転化したもの。別名でニガキとよばれることもある^[7]。中国植物名は槐^[3]、または槐樹（かいじゅ）である^[8]。街路樹によく使われ、公園や学校などの庭木としても植えられる^[9]。

マメ科の**落葉高木**で、樹高は5 - 15メートル (m) になる^[10]。成木の樹皮は暗灰白色で、細かく縦にはっきりと裂ける^{[11][12]}。若木の樹皮は濃緑色で、皮目がある^[12]。一年枝は暗緑色で、無毛または短毛がある^[12]。

葉は**奇数羽状複葉**で**互生**^[5]、小葉は5 - 10対あり、長さ3 - 5センチメートル (cm) の卵形で先端は尖り、全縁で^[10]、表面は緑色、裏面は緑白色で短毛がありフェルトのようになっている。小葉は、対につくか、交互につくかは変異があるため、個体によりばらつきがある^[13]。よく似る植物にイヌエンジュがあるが、イヌエンジュよりも葉は細身で、小葉の枚数は多い^[13]。

花期は7 - 8月で^[11]、枝先の**円錐花序**に細かい白色の蝶形花を多数開き^[9]、蜂などの重要な**蜜源植物**となっている。花の咲き方は、ややまばらに咲く^[9]。

果期は10 - 11月^[5]。豆果の莢は長さ5 - 8 cmで、種子と種子の間が著しく、数珠のように大きくくびれる^[5]。枝には豆果が残り、裂開せずに冬でもねばつく^[12]。種子は**ヒヨドリ**等の果実食鳥により散布されるため、唐突に雑木として生えてくることもある^[14]。

冬芽は葉柄内芽で、膨らんだ葉跡基部に隠れるように一部だけが露出しており、濃褐色の毛に覆われている^[12]。仮頂芽はあまり発達せず、測芽は互生する^[12]。

また、**シダレエンジュ** (*Styphnolobium japonicum* var. *pendulum*、シノニム *Sophora japonica* var. *pendula*) という枝垂れる変種があり、公園などに植栽される。

エンジュ



エンジュ

分類 (APG III)

界: 植物界 Plantae

階級なし: 被子植物 angiosperms

階級なし: 真正双子葉類 eudicots

目: マメ目 Fabales

科: マメ科 Fabaceae

亜科: マメ亜科 Faboideae

属: **エンジュ属** *Styphnolobium*

種: **エンジュ** *S. japonicum*

学名

Styphnolobium japonicum (L.) Schott
(1831)^{[1][2][3]}

シノニム

- *Sophora japonica* L. (1767)^[4]

英名

Japanese Pagoda Tree

2023年7月

MeSH terms

- > Animals
- > Betacoronavirus / classification*
- > COVID-19
- > COVID-19 Drug Treatment
- > Chiroptera / virology*
- > Clinical Trials as Topic
- > Coronavirus Infections / diagnosis*
- > Coronavirus Infections / drug therapy
- > Coronavirus Infections / physiopathology
- > Coronavirus Infections / transmission
- > Disease Outbreaks
- > Evolution, Molecular
- > Humans
- > Pandemics
- > Pneumonia, Viral / diagnosis*
- > Pneumonia, Viral / drug therapy
- > Pneumonia, Viral / physiopathology
- > Pneumonia, Viral / transmission
- > SARS-CoV-2
- > Zoonoses / virology*

2021年6月

MeSH terms

- > Animals
- > Betacoronavirus / classification*
- > COVID-19
- > Chiroptera / virology*
- > Clinical Trials as Topic
- > Coronavirus Infections / diagnosis*
- > Coronavirus Infections / drug therapy
- > Coronavirus Infections / physiopathology
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- > Evolution, Molecular
- > Humans
- > Pandemics
- > Pneumonia, Viral / diagnosis*
- > Pneumonia, Viral / drug therapy
- > Pneumonia, Viral / physiopathology
- > Pneumonia, Viral / transmission
- > SARS-CoV-2
- > Zoonoses / virology*

2020年9月

MeSH terms

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

[SARS-CoV-2: an Emerging Coronavirus that Causes a Global Threat - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/32226285/)
<https://pubmed.ncbi.nlm.nih.gov/32226285/>



Medical Subject Headings 2023

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Any Fragment

All Terms

Main Heading (Descriptor) Terms

Qualifier Terms

Supplementary Concept Record Terms

MeSH Unique ID

Search in all Supplementary Concept Record Fields

Heading Mapped To

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Pharmacological Action

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Related Registry Search

CAS Registry/EC Number/UNII Code/NCBI Taxonomy ID Number (RN)

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Search results

Items: 1 to 20 of 49

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SARS-CoV-2

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

SARS-CoV-2 variants [Supplementary Concept]

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

COVID-19 Serological Testing

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

Baiya SARS-CoV-2 VAX COVID-19 vaccine [Supplementary Concept]

4. plant (*Nicotiana benthamiana*) produced **SARS-CoV-2** receptor binding domain protein subunit vaccine
Date introduced: May 25, 2022

3C-like proteinase, SARS-CoV-2 [Supplementary Concept]

5. Date introduced: September 30, 2020

nucleocapsid phosphoprotein, SARS-CoV-2 [Supplementary Concept]

6. RefSeq NC_045512
Date introduced: October 1, 2020

PubMed Search Builder

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Database: Select ▾

Search details

"sars-cov-2" [MeSH Terms] OR
SARS-CoV-2 [Text Word]

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🔍 SARS-CoV-2 (49)

MeSH

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SARS-CoV-2

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

Year introduced: 2021(2020)

PubMed search builder options

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- | | | |
|---|---|--|
| <input type="checkbox"/> chemistry | <input type="checkbox"/> growth and development | <input type="checkbox"/> pathogenicity |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> physiology |
| <input type="checkbox"/> drug effects | <input type="checkbox"/> isolation and purification | <input type="checkbox"/> radiation effects |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> metabolism | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> genetics | | |

Restrict to MeSH Major Topic.

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

Tree Number(s): B04.820.578.500.540.150.113.937.500

MeSH Unique ID: D000086402

Registry Number: txid2697049

Entry Terms:

- SARS-CoV-2 Virus
- SARS CoV 2 Virus
- SARS-CoV-2 Viruses
- Virus, SARS-CoV-2
- 2019 Novel Coronavirus
- 2019 Novel Coronaviruses
- Coronavirus, 2019 Novel
- Novel Coronavirus, 2019
- COVID-19 Virus
- COVID 19 Virus
- COVID-19 Viruses
- Virus, COVID-19
- Wuhan Coronavirus
- Coronavirus, Wuhan
- COVID19 Virus
- COVID19 Viruses
- Virus, COVID19
- Viruses, COVID19
- Coronavirus Disease 2019 Virus
- Severe Acute Respiratory Syndrome Coronavirus 2
- SARS Coronavirus 2
- Coronavirus 2, SARS
- 2019-nCoV
- Wuhan Seafood Market Pneumonia Virus

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[RNA Viruses](#)

[Positive-Strand RNA Viruses](#)

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SARS-CoV-2

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SARS-CoV-2

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

Year introduced: 2021(2020)

PubMed search builder options

[Subheadings:](#)

- | | | |
|--|---|--|
| <input type="checkbox"/> chemistry | <input type="checkbox"/> growth and development | <input type="checkbox"/> pathogenicity |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> physiology |
| <input checked="" type="checkbox"/> drug effects | <input type="checkbox"/> isolation and purification | <input type="checkbox"/> radiation effects |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> metabolism | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> genetics | | |

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Entry Terms:

- SARS-CoV-2 Virus
- SARS CoV 2 Virus
- SARS-CoV-2 Viruses
- Virus, SARS-CoV-2
- 2019 Novel Coronavirus
- 2019 Novel Coronaviruses

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SARS-CoV-2

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

Year introduced: 2021(2020)

PubMed search builder options

[Subheadings:](#)

- | | | |
|--|---|--|
| <input type="checkbox"/> chemistry | <input type="checkbox"/> growth and development | <input type="checkbox"/> pathogenicity |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> physiology |
| <input checked="" type="checkbox"/> drug effects | <input type="checkbox"/> isolation and purification | <input type="checkbox"/> radiation effects |
| <input type="checkbox"/> enzymology | <input type="checkbox"/> metabolism | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> genetics | | |

Restrict to MeSH Major Topic.

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

Tree Number(s): B04.820.578.500.540.150.113.937.500

MeSH Unique ID: D000086402

Registry Number: txid2697049

Entry Terms:

- SARS-CoV-2 Virus
- SARS CoV 2 Virus
- SARS-CoV-2 Viruses
- Virus, SARS-CoV-2
- 2019 Novel Coronavirus
- 2019 Novel Coronaviruses

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"SARS-CoV-2/drug effects"
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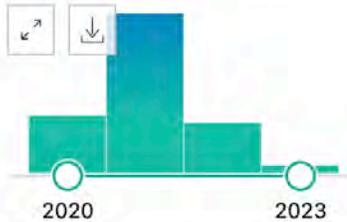
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- 1 [Rapid Virucidal Activity of Japanese *Saxifraga* Species-Derived Condensed Tannins against SARS-CoV-2, Influenza A Virus, and Human Norovirus Surrogate Viruses.](#)
 Cite Murata T, Jamsransuren D, Matsuda S, Ogawa H, Takeda Y.
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- 2 [Differential serum neutralisation of omicron sublineages in patients receiving prophylaxis with tixagevimab-cilgavimab.](#)
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 PMID: 37030318 **Free PMC article.** No abstract available.
- 3 [Acid sphingomyelinase \(ASM\) and COVID-19: A review of the potential use of ASM inhibitors against SARS-CoV-2.](#)
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 Share Cell Biochem Funct. 2023 Apr;41(3):284-295. doi: 10.1002/cbf.3789. Epub 2023 Mar 17.
 PMID: 36929117 **Review.**

検索語を含む部分抜粋が表示されない。

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Search	Actions	Details	Query	Results	Time
#2	...	>	Search: " SARS-CoV-2/drug effects "[Majr] Sort by: Most Recent	1,639	21:48:14
#1	...	>	Search: sars cov-2	205,700	21:46:56

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#2	...	▼	Search: "SARS-CoV-2/drug effects" [Majr] Sort by: Most Recent "sars cov 2/drug effects" [MeSH Major Topic]	1,639	21:48:14
#1	...	▼	Search: sars cov-2 "sars cov 2" [MeSH Terms] OR "sars cov 2" [All Fields] OR "sars cov 2" [All Fields] Translations sars cov-2: "sars-cov-2" [MeSH Terms] OR "sars-cov-2" [All Fields] OR "sars cov 2" [All Fields]	205,700	21:46:56

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All Fields [ALL]	Grant Number [GR]	Personal Name as Subject [PS]
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Author [AU]	ISBN [ISBN]	Place of Publication [PL]
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Book [BOOK]	Journal [TA]	PMID [PMID]
Comment Correction Type	Language [LA]	Publication Date [DP]
Completion Date [DCOM]	Last Author Name [LASTAU]	Publication Type [PT]
Conflict of Interest Statement [COIS]	Location ID [LID]	Publisher [PUBN]
Corporate Author [CN]	MeSH Date [MHDA]	Secondary Source ID [SI]
Create Date [CRDT]	MeSH Major Topic [MAJR]	Subset [SB]
EC/RN Number [RN]	MeSH Subheadings [SH]	Supplementary Concept [NM]
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Entry Date [EDAT]	Modification Date [LR]	Title [TI]
Filter [FILTER] [SB]	NLM Unique ID [JID]	Title/Abstract [TIAB]
First Author Name [1AU]	Other Term [OT]	Transliterated Title [TT]
Full Author Name [FAU]	Owner	Volume [VI]

AND, OR, NOT

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



(sars cov-2) NOT ("vaccine"[All Fields])

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New Proximity Search Feature Available in PubMed

PubMed, a free National Library of Medicine (NLM) resource supporting the search and retrieval of biomedical and life sciences literature, has a brand-new feature! With proximity search, you can now search for multiple terms appearing in any order within a specified distance of one another in the [Title] or [Title/Abstract] fields.

<https://tinyurl.com/3pddfsuf>

Proximity search (近接検索)

複数の単語が順番関係なく、与えた距離内で出現する文献情報を検索。

特に同義語が多い場合に効率よく検索できる。

例：rationing healthcare の他の表現

- healthcare rationing (他の単語が間がない=0)
- rationing of healthcare (同=1)
- rationing strategies of healthcare (同=2)

"rationing healthcare"[tiab:~0]



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Rationing in healthcare—a scoping review.
 1 Berezowski J, Czapla M, Manulik S, Ross C.
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Rational (or rationing?) healthcare.
 4 Fante RG, Bartley GB.
 Cite Ophthalmology. 1999 Sep;106(9):1649-50. doi: 10.1016/S0161-6420(99)90190-0. PMID: 10485528 No abstract available.

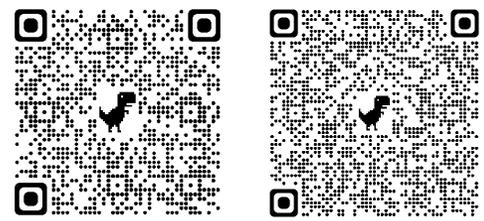
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 1 Berezowski J, Czapla M, Manulik S, Ross C.
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 3 Srinivas G, Maanasa R, Meenakshi M, Adaikalam JM, Seshayyan S, Muthuvel T.
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Rationing universal healthcare.
 4 Johnstone MJ.
 Cite Aust Nurs Midwifery J. 2015 Jul;23(1):25. PMID: 26226812 No abstract available.

Crisis management and the dilemma of rationing strategies in healthcare organizations.
 11 Moura-Neto JA, Moura AF, Moura JA Jr.
 Cite J Bras Nefrol. 2019 Apr-Jun;41(2):170-171. doi: 10.1590/2175-8239-jbn-2018-0135. Epub 2018 Oct 18. PMID: 30353910 **Free PMC article.** No abstract available.



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"accidental overdose"[Title/Abstract:~3] AND acetaminophen
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What's new for 'sars cov 2 vaccine' in PubMed 外部 受信トレイ



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Asian J Psychiatr. 2023 Jul 11;87:103692. doi: 10.1016/j.ajp.2023.103692. Online ahead of print.
PMID: 37450981
2. [Regional Anesthesia in Upper-Limb Surgery.](#)
McLennan L, Haines M, Graham D, Sullivan T, Lawson R, Sivakumar B.



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

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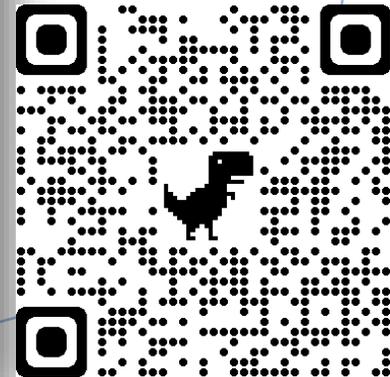
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2. Anti-inflammatory effects of ethyl acetate fraction from *Melilotus suaveolens* Ledeb on LPS-stimulated RAW 264.7 cells. PMID: [19429346](#)
3. *Viburnum pichinchense* methanol extract exerts anti-inflammatory effects via targeting the NF-kappaB and



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2. Anti-inflammatory effects of ethyl acetate fraction from *Melilotus suaveolens* Ledeb on LPS-stimulated RAW 264.7 cells. PMID: [19429346](#)
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4. Anti-inflammatory constituents from *Perilla frutescens* on lipopolysaccharide-stimulated RAW264.7 cells. PMID: [30121232](#)
5. Tibetan medicine Kuan-Jin-Teng exerts anti-arthritic effects on collagen-induced arthritis rats via inhibition the production of pro-inflammatory cytokines and down-regulation of MAPK signaling pathway. PMID: [30802713](#)
6. Chemical constituents from the rhizomes of *Polygonatum sibiricum* Red. and anti-inflammatory activity in RAW264.7 macrophage cells. PMID: [29451015](#)
7. Inhibition of Tumor Necrosis Factor-alpha and Interleukin-1beta Production in Lipopolysaccharide-Stimulated Monocytes by Methanolic Extract of *Elephantopus scaber* Linn and Identification of Bioactive Components. PMID: [26875087](#)
8. Investigation of constituents from *Cinnamomum camphora* (L.) J. Presl and evaluation of their anti-inflammatory properties in lipopolysaccharide-stimulated RAW 264.7 macrophages. PMID: [29660467](#)
9. Anti-inflammatory effects of methanol extracts of the root of *Lilium lancifolium* on LPS-stimulated Raw264.7 cells. PMID: [20412846](#)
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Epub 2014 May 27.

Implications of the Higgs discovery for the MSSM

Abdelhak Djouadi¹

Affiliations + expand

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

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Abstract

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

Figures

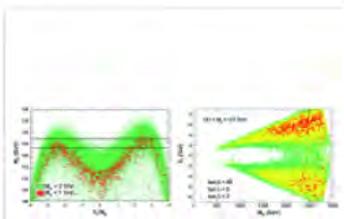


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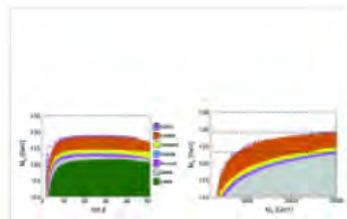


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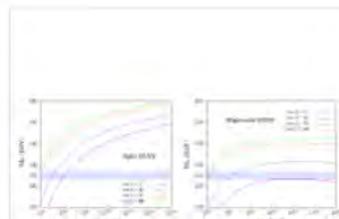


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FAU - Djouadi, Abdelhak
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AD - Laboratoire de Physique Théorique, U. Paris-Sud and CNRS, 91405 Orsay, France ; TH Unit, CERN, Geneva, Switzerland.
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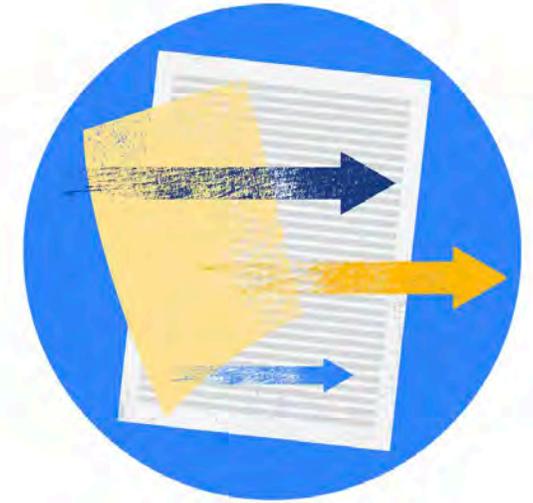
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Ani Nalbandian, K. Sehgal, +31 authors E. Wan · Medicine · Nature Network Boston · 22 March 2021

TLDR A comprehensive review of the current literature on post-acute COVID-19, also referred to as long COVID, its pathophysiology and its organ-specific sequelae highlights the need for multidisciplinary follow-up and care of COVID-19 survivors. [Expand](#)

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Gut microbiota dynamics in a prospective cohort of patients with post-acute COVID-19 syndrome

Qin Liu, J. Mak, +10 authors S. Ng · Medicine · Gut · 1 January 2022

TLDR Findings provided observational evidence of compositional alterations of gut microbiome in patients with long-term complications of COVID-19, and gut microbiota composition at admission was associated with occurrence of PACS. [Expand](#)

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Immunoglobulin signature predicts risk of post-acute COVID-19 syndrome

C. Cervia, Y. Zurbuchen, +13 authors O. Boyman · Medicine, Biology

TLDR An immunoglobulin (Ig) signature is discovered, based on analysis of blood samples from patients with asthma bronchiale, and five symptoms during primary infection. [Expand](#)

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Post-acute COVID-19 syndrome in patients after 12 months

Yoonjung Kim, Bitna-Ha, +4 authors Sooyoon Hwang · Medicine, Psychology

TLDR COVID-19-related persistent symptoms improved over time. [Expand](#)

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Post-acute COVID-19 syndrome

D. Montani, L. Savale, +13 authors X. Monnet · Medicine · European Respiratory Review · 9 March 2022

TLDR The presentation, prevalence, pathophysiology and evolution of respiratory complications and other organ-related injuries associated with post-acute COVID-19 syndrome will be a major issue for various healthcare providers in the coming months. [Expand](#)

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Post-acute COVID-19 syndrome

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TLDR A comprehensive review of the current literature on post-acute COVID-19, also referred to as long COVID, its pathophysiology and its organ-specific sequelae highlights the need for multidisciplinary follow-up and care of COVID-19 survivors.

Abstract Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is the pathogen responsible for the coronavirus disease 2019 (COVID-19) pandemic, which has resulted in global health strained health resources. As the population of patients recovering from COVID-19 grows, it is essential to establish an understanding of the healthcare issues surrounding them. COVID-19 is a multi-organ disease with a broad spectrum of manifestations. Similarly to post-acute COVID-19 described in survivors of other virulent coronavirus epidemics, there are increasing reports of long and prolonged effects after acute COVID-19. Patient advocacy groups, many members of whom are themselves as long haulers, have helped contribute to the recognition of post-acute COVID-19 syndrome characterized by persistent symptoms and/or delayed or long-term complications weeks from the onset of symptoms. Here, we provide a comprehensive review of the current literature on post-acute COVID-19, its pathophysiology and its organ-specific sequelae. Finally, we discuss clinical considerations for the multidisciplinary care of COVID-19 survivors and propose a framework for the identification of those at high risk for post-acute COVID-19 and their coordinated care in dedicated COVID-19 clinics. A comprehensive review of the current literature on post-acute COVID-19, also referred to as long COVID, its pathophysiology and its organ-specific sequelae highlights the need for multidisciplinary follow-up and care of COVID-19 survivors. [Collapse](#)

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Post-acute COVID-19 syndrome and kidney diseases: what do we know?

Sidar Copur, M. Berkkan, C. Basile, K. Tuttle, M. Kanbay · Medicine, Biology · Journal of Nephrology · 2022

TLDR The present review aims to evaluate the growing literature on kidney involvement in the SARS-CoV-2 infection along with clinical features reported both in the acute phase of the infection and in the post-acute COVID-19 period by assessing potential pathophysiological frameworks explaining such conditions. [Expand](#)

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Long COVID or Post-acute Sequelae of COVID-19 (PASC): An Overview of Biological Factors That May Contribute to Persistent Symptoms

A. Proal, M. VanElzakker · Medicine, Biology · Frontiers in Microbiology · 2021

TLDR Mechanisms by which RNA viruses beyond just SARS-CoV-2 have been connected to long-term health consequences are detailed to suggest different therapeutic approaches may be required to best manage care for specific patients with the PASC diagnosis. [Expand](#)

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