



# Science



## 数据库使用指南

# 目录



- **Science**出版社
- **Science**系列期刊
- **Science**数据库其它版块介绍
- 浏览**Science**各种资源
- **Science**的检索功能
- 个性化服务

# Science 出版社

- 由**Thomas Edison**创办于1880年，1900年起成为美国科学促进会（AAAS）的官方刊物。
- 全世界发行量最大的同行评审综合科学刊物，各国科学家公认的世界一流科技学术期刊，被誉为“**诺贝尔奖获得者的摇篮**”。



# AAAS

## Journal publisher and so much more

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE



ENHANCING  
EDUCATION

GLOBAL  
OUTREACH

POLICY &  
ADVOCACY

PUBLIC  
ENGAGEMENT

SUPPORTING  
CAREERS

- AAAS: 美国科学促进会创于1848, 位于美国华盛顿。是全球最大的科学协会, 其代表多是科学界名人, 美国政府许多科技政策的出台都事先经过该会的充分论证。
- 宗旨: 促进科学, 服务社会
- 265个分支机构, 服务于1000多万科学家

# Science 和中国



2008年9月30日，中国国务院总理温家宝在中南海紫光阁会见了到访的美国《科学》杂志主编布鲁斯·艾伯茨。

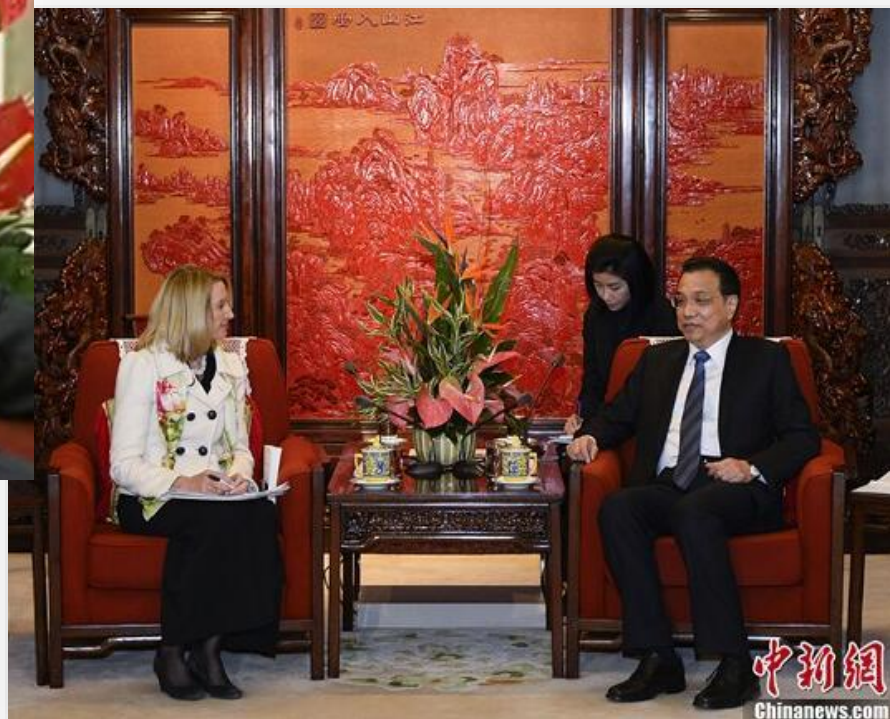
2008年10月31日出版的《科学》周刊刊登了一篇社论，即温总理的《科学与中国现代化》

***Science and China's Modernization***




<http://www.sciencemag.org/cgi/content/summary/322/5902/649>



# Science 和中国



SHARE EDITORIAL

   Li and Me

Marcia McNutt  
+ See all authors and affiliations

Science 11 Apr 2014  
Vol. 344, Issue 6180, pp. 127  
DOI: 10.1126/science.1251293

Article Info & Metrics eLetters PDF

You are currently viewing the summary. [View Full Text](#)

### Summary

During a week-long trip to China in January this year, I was invited to meet with Premier Li Keqiang in Beijing to discuss science. At first, I was in disbelief. After all, China is a nation of 1.3 billion people. Li, as Premier and Party Secretary of the State Council, has many pressing issues of national and international concern to attend to. In all my years as a scientist, including heading a billion-dollar U.S. research agency, this was the most significant invitation I had ever received to meet with a sitting national leader to hear his vision for science and discuss important global science matters. The fact

# Science 和中国

Editor in Chief: Jeremy Berg, PhD



原清华大学副校长：施一公教授



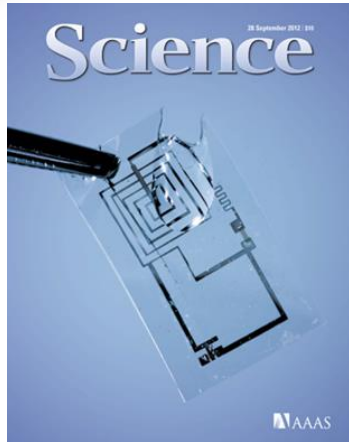
# 目录



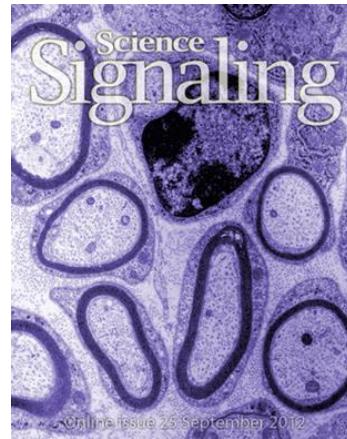
- Science出版社
- **Science**系列期刊
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- 个性化服务



# Science系列期刊



1880



1999, 2008



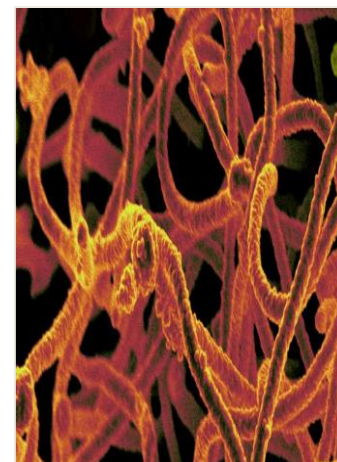
2009



2015



2016



2016

# Science 系列期刊\_Science 《科学》

- **涵盖各种学科**

- LIFE SCIENCES (50%)
- PHYSICAL SCIENCES (35%)
- OTHER SUBJECTS (15%, 社会, 政治, 人类, 宗教)

- **具有科学新闻杂志和学术期刊双重特点**

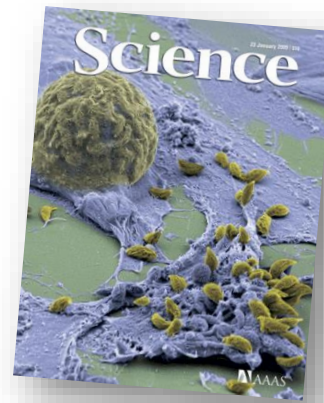
- 新闻&社论 (49%)
- 专家评审的研究论文 (51%)



# Science 系列期刊\_Science 《科学》

- 高品质、高影响力

- 编辑团队由25位具有博士学位的编辑，及超过120名来自各学科领域的顶尖专家组成；
- 来稿要经过严格的同行评审，稿件接收率不到7%；
- 2021年影响因子47.728



# Science 系列期刊\_Science Signaling

## *Science Signaling* 《科学信号》

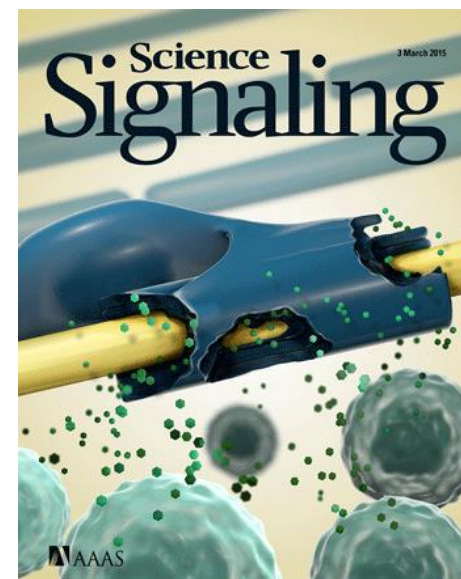
✦ 创刊于1999年，原Science STKE — 《细胞信号转导》，是美国科学促进会（AAAS）旗下研究细胞信号转导的官方刊物

✦ **研究范围：**

生物化学、生物信息学、细胞生物学、分子生物学、微生物学、系统生物学、免疫学、神经科学、药理学、生理学

✦ **期刊品质：**

2021年影响因子8.192，在**生物化学、分子生物学及细胞生物学**领域名列前茅。



# Science 系列期刊\_Science Translational Medicine

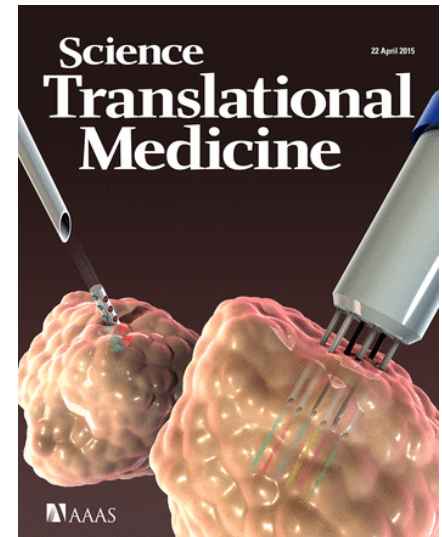
## Science Translational Medicine 《科学转化医学》

✚ 2009年美国科学促进会（AAAS）推出的最新官方刊物，为所有相关学科的基础研究、转化研究和临床研究的专业人员提供思想沟通和交流的论坛。

✚ **宗旨：**  
将**基础科学和临床研究**联系起来，以改善全球患者的护理。

✚ **研究范围：**  
癌症学、基因组科学、分子生物学、神经科学、生物工程学、生物信息学，细胞学、心血管疾病、卫生政策等

✚ **期刊品质：**  
《科学转化医学》是在科学、工程和医学等交叉学科领先的线上周刊。2021年影响因子为17.956。



# Science 系列期刊\_Science Advances

## Science Advances 《科学进展》

- ✦ 创刊于2015年，美国科学促进会（AAAS）旗下第一本纯OA期刊
- ✦ **特点：**  
交叉学科；快速出版
- ✦ **研究范围：**  
计算机、工程、环境、生命、数学、物理、社会科学等
- ✦ **期刊品质：**  
秉承严格的收录标准、审稿流程；  
一经出版便被SCI收录，2021年  
影响因子为14.136



# Science 系列期刊\_Science Robotics

## Science Robotics 《科学机器人》

✚ 创刊于2016年

✚ **特点:**

交叉学科, 内容涵盖广泛

✚ **研究范围:**

基础科学, 计算机科学, 工程, 医学, 既包含了机器人学的传统法则, 也包含很多新兴的发展动态和趋势, 例如先进材料和仿生设计, 涉及微米/纳米机器人, 陆地/海底机器人, 人工智能, 机器人生物材料等

✚ **期刊品质:**

涵盖机器人学的传统学科, 以及先进材料和仿生设计等新兴趋势

2021年影响因子为23.748



# Science Robotics



# Science 系列期刊\_ **Science Immunology**

## **Science Immunology 《科学免疫学》**

✚ 创刊于2016年

✚ **使命:**

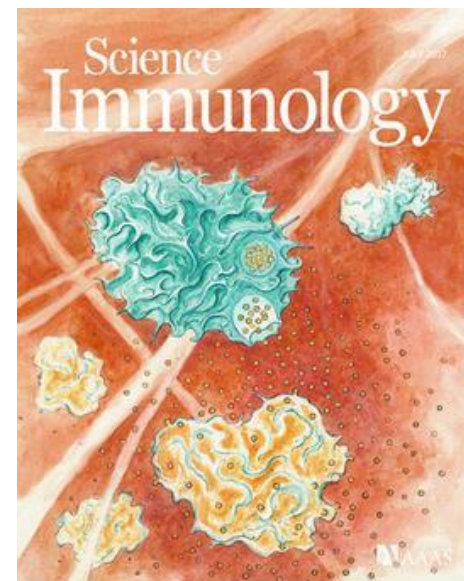
通过展现在免疫学扩展领域内的革新与进步，来使读者加深对免疫系统的了解与理解

✚ **研究范围:**

✚ 细胞和临床免疫学的交叉学科，涉及大量关于人类的生物有机体的研究。该刊出版发行的所有文献全部都为以科学研究为基础的原创性文献，全部经由同行评审，内容会涉及到免疫学研究相关领域的重要研究进展，新的医疗工具的和新技术的应用等。

✚ **期刊品质:**

2021年影响因子为17.7265，在免疫学中排名第七





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- 个性化服务

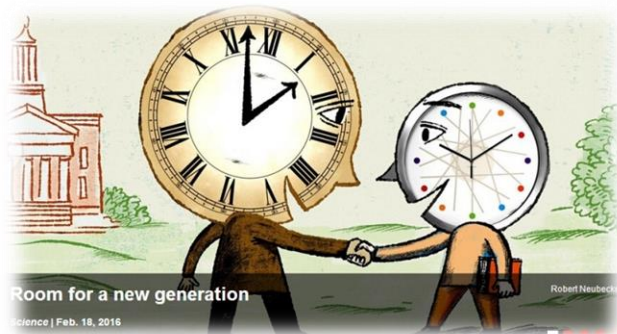
# Science数据库其它资源介绍

## • *Science News*

- 每天, *Science*新闻组都会为在线用户提供几篇关于科研成果或科学政策的最新消息; 另外也会提供每周出版的*Science Magazine*中收录的新闻类文章。这些消息简洁扼要, 使读者花费少量时间就能及时了解世界各地各科研领域的最新进展。

## • *Science Careers*

- 为科学家们通过网络谋职及寻找各种基金支助项目、科研合作项目提供信息; 提供与之相关的文献和议题, 并设讨论区供科学家们交流求职经验。



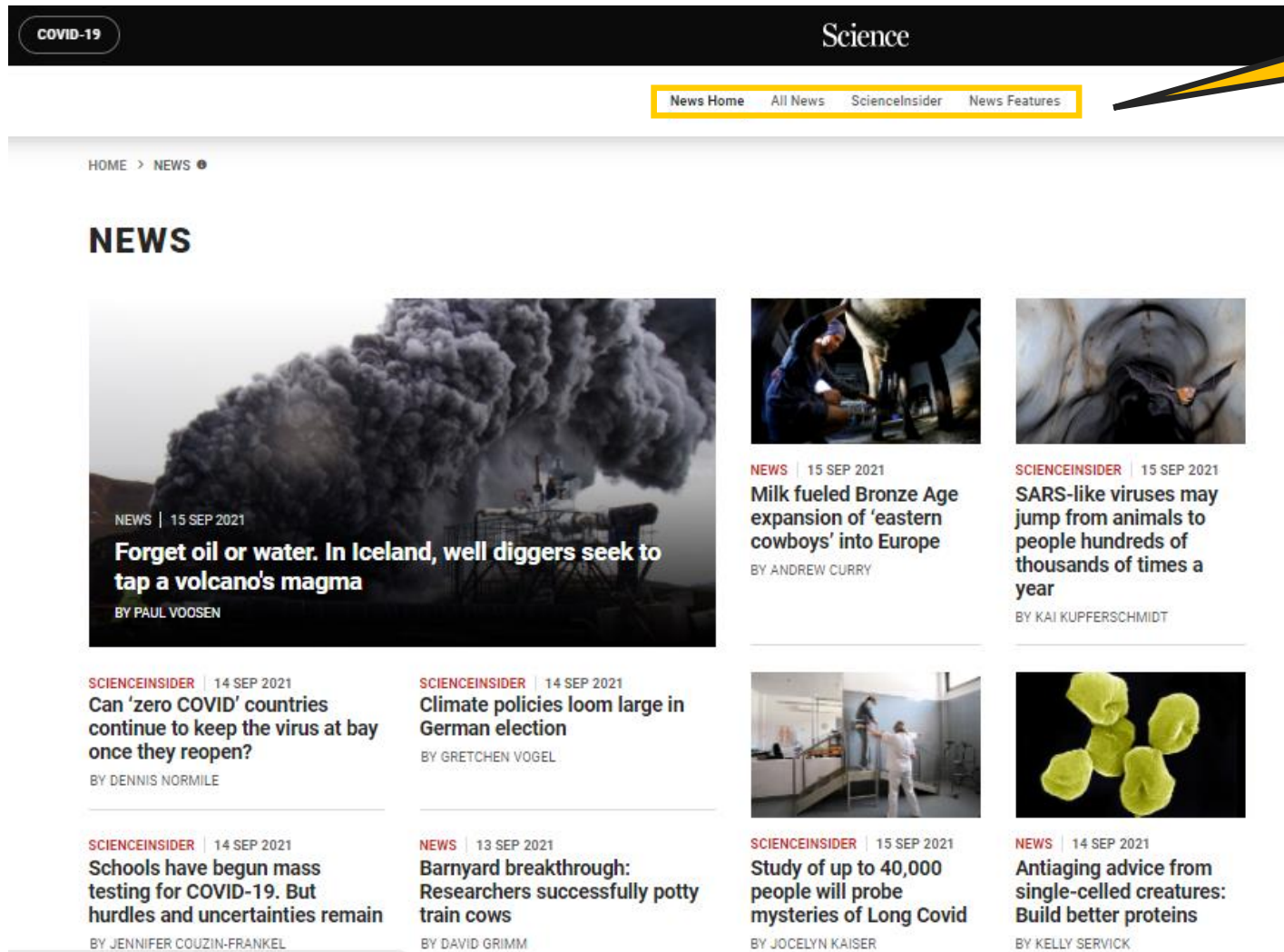
## Careers



# Science数据库其它资源介绍

- *Science News*

资源导航栏，选择感兴趣的新闻



The screenshot shows the Science website's news page. At the top, there is a navigation bar with a 'COVID-19' filter on the left and the 'Science' logo in the center. Below the logo is a secondary navigation menu with links for 'News Home', 'All News', 'ScienceInsider', and 'News Features'. The main content area is titled 'NEWS' and features a grid of news articles. Each article includes a thumbnail image, a date, a headline, and the author's name.

HOME > NEWS

## NEWS

**NEWS** | 15 SEP 2021  
**Forget oil or water. In Iceland, well diggers seek to tap a volcano's magma**  
BY PAUL VOOSEN

**SCIENCEINSIDER** | 14 SEP 2021  
**Can 'zero COVID' countries continue to keep the virus at bay once they reopen?**  
BY DENNIS NORMILE

**SCIENCEINSIDER** | 14 SEP 2021  
**Climate policies loom large in German election**  
BY GRETCHEN VOGEL

**SCIENCEINSIDER** | 14 SEP 2021  
**Schools have begun mass testing for COVID-19. But hurdles and uncertainties remain**  
BY JENNIFER COUZIN-FRANKEL

**NEWS** | 13 SEP 2021  
**Barnyard breakthrough: Researchers successfully potty train cows**  
BY DAVID GRIMM

**NEWS** | 15 SEP 2021  
**Milk fueled Bronze Age expansion of 'eastern cowboys' into Europe**  
BY ANDREW CURRY

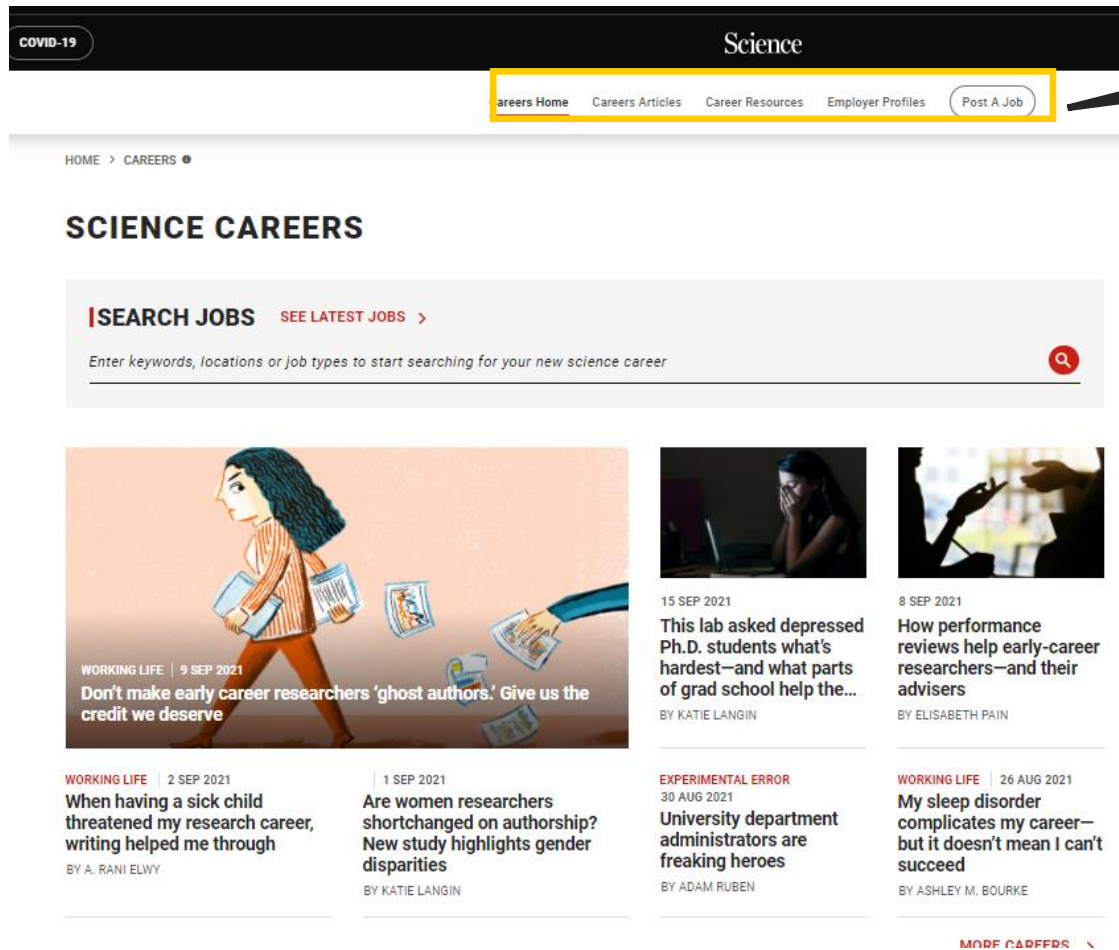
**SCIENCEINSIDER** | 15 SEP 2021  
**SARS-like viruses may jump from animals to people hundreds of thousands of times a year**  
BY KAI KUPFERSCHMIDT

**SCIENCEINSIDER** | 15 SEP 2021  
**Study of up to 40,000 people will probe mysteries of Long Covid**  
BY JOCELYN KAISER

**NEWS** | 14 SEP 2021  
**Antiaging advice from single-celled creatures: Build better proteins**  
BY KELLY SERVIC

# Science数据库其它资源介绍

- **Science Careers**



The screenshot shows the Science Careers website. At the top, there is a navigation bar with 'Science' in the center and a 'Post A Job' button on the right. Below the navigation bar, there is a search bar with the text 'Enter keywords, locations or job types to start searching for your new science career' and a magnifying glass icon. The main content area features several article cards. The first card is titled 'Don't make early career researchers 'ghost authors.' Give us the credit we deserve' and is dated 9 SEP 2021. The second card is titled 'When having a sick child threatened my research career, writing helped me through' and is dated 2 SEP 2021. The third card is titled 'Are women researchers shortchanged on authorship? New study highlights gender disparities' and is dated 1 SEP 2021. The fourth card is titled 'This lab asked depressed Ph.D. students what's hardest—and what parts of grad school help the...' and is dated 15 SEP 2021. The fifth card is titled 'How performance reviews help early-career researchers—and their advisers' and is dated 8 SEP 2021. The sixth card is titled 'University department administrators are freaking heroes' and is dated 30 AUG 2021. The seventh card is titled 'My sleep disorder complicates my career—but it doesn't mean I can't succeed' and is dated 26 AUG 2021. At the bottom of the page, there is a 'MORE CAREERS' link.

可以在上面发布  
或寻找科研工作

# Science数据库其它资源介绍

- **Collection**

COVID-19

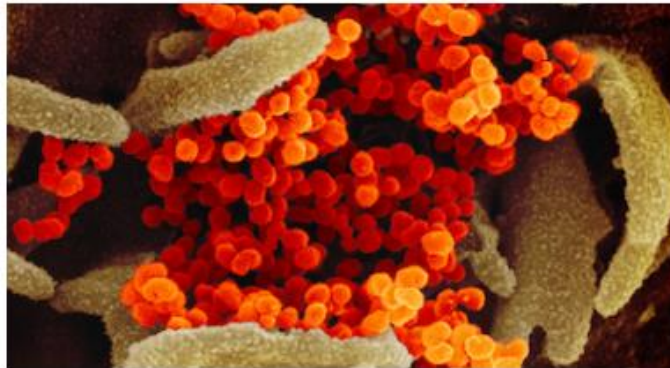
Science

HOME > COLLECTIONS

## COLLECTIONS

Browse collections by topic, from the *Science* family of journals.

按照主题分类  
的文章合集



### Coronavirus

The *Science* journals are striving to provide the best and most timely research, analysis, and news coverage of COVID-19 and the coronavirus that causes it. All content is free to access.

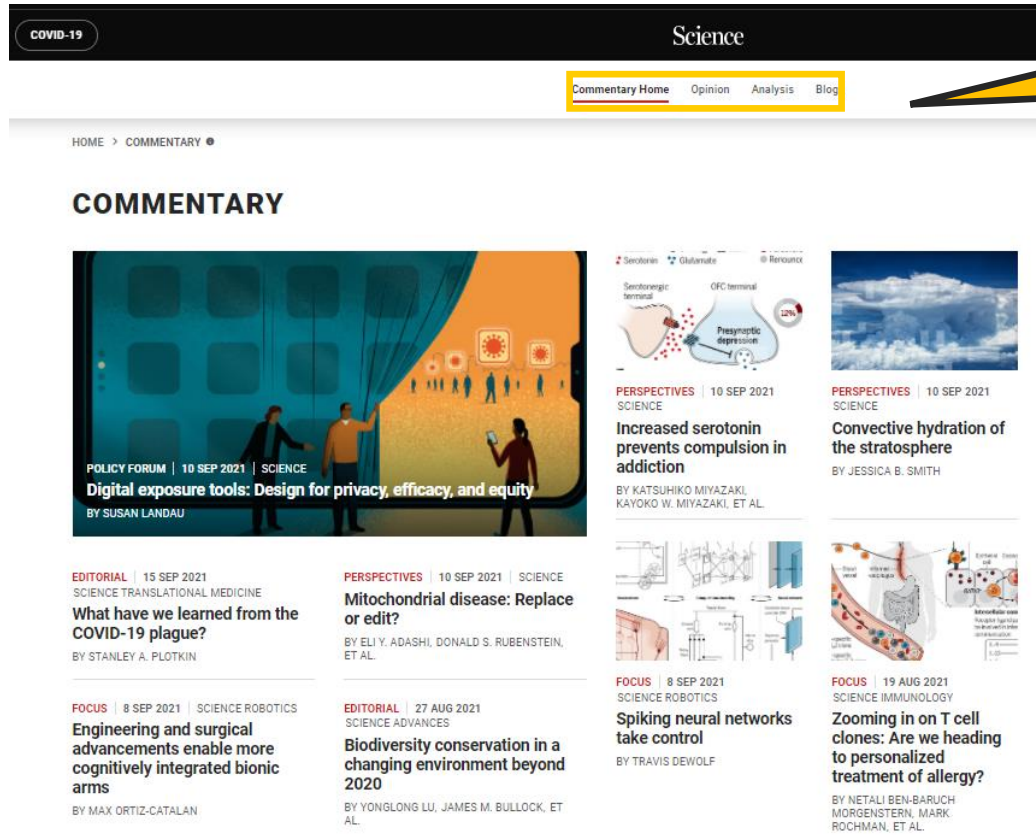


### Biodiversity Conservation in a Changing Environment Beyond 2020

In this special collection, we bring together a group of leading conservation related scientists from the different parts of the world to identify grand challenges for biodiversity conservation, conflicts and trade-offs between conservation and utilization, and strategies and policies for sustainable utilization and management of biodiversity resources at global, regional or national level.

# Science数据库其它资源介绍

- *Commentary*



The screenshot shows the Science journal website's 'Commentary' page. At the top, there is a navigation bar with 'COVID-19' and 'Science' tabs. Below this is a secondary navigation bar with 'Commentary Home', 'Opinion', 'Analysis', and 'Blog' links. The main content area is titled 'COMMENTARY' and features a grid of article cards. Each card includes a thumbnail image, a title, a date, and the author's name. The articles are categorized by type, such as 'POLICY FORUM', 'PERSPECTIVES', 'EDITORIAL', and 'FOCUS'.

按观点，分析  
和博客分类的  
评论文章

VIDEOS



Supercell storm clouds act like atmospheric mountains

9 SEP 2021 | BY JOEL GOLDBERG, KATIE FREE



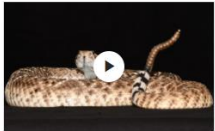
Wild cockatoos make their own cutley sets

31 AUG 2021 | BY VIRGINIA MORELL



The quest for room-temperature superconductors that don't require extreme pressure

31 AUG 2021 | BY MEAGAN CANTWELL



How rattlesnakes fool you into thinking they're right underfoot

19 AUG 2021 | BY RACHEL FRITTS



Baby bats babble, much like human infants

19 AUG 2021 | BY CATHLEEN O'GRADY



Like humans, cuttlefish can form complex memories

18 AUG 2021 | BY RODRIGO PÉREZ ORTEGA



PODCASTS

FILTERS



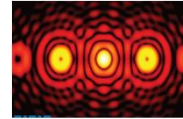
9 SEP 2021 | BY SARAH CRESPI, PAUL VOOSSEN

Legions of lunar landers, and why we make robots that look like people



Full Transcript

+ SUBSCRIBE



2 SEP 2021 | BY SARAH CRESPI, JON COHEN

Pinpointing the origins of SARS-CoV-2, and making vortex beams of atoms



Full Transcript

+ SUBSCRIBE



26 AUG 2021 | BY SARAH CRESPI, RACHEL FRITTS, ANGELA SAINI

New insights into endometriosis, predicting RNA folding, and the surprising career of the spirometer

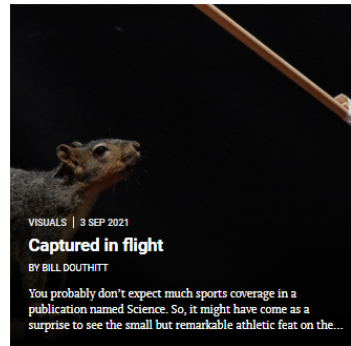


Full Transcript

+ SUBSCRIBE

19 AUG 2021 | BY SARAH CRESPI, MICHAEL PRICE

BLOGS



VISUALS | 3 SEP 2021  
**Captured in flight**

BY BILL DOUTHITT

You probably don't expect much sports coverage in a publication named Science. So, it might have come as a surprise to see the small but remarkable athletic feat on the...

EDITOR'S BLOG | 9 SEP 2021 | BY H. HOLDEN THORP

**How it started, how it's going**

As we launch our new website at science.org, it's a great time to look back at all that Science and the American Association for the Advancement of Science (AAAS, publisher of the Science journals)...

IN THE PIPELINE | 15 SEP 2021 | BY DEREK LOWE

**mRNA's History- And Its Future**

This is a really good article on the history of mRNA vaccines, and I recommend it. I and many others have been emphasizing that we've been very fortunate that so much work had already gone into this ar...

IN THE PIPELINE | 14 SEP 2021 | BY DEREK LOWE

**It's Not Going to Be Smooth**

There's bad news this morning on the gene therapy front. A small company called Audentes was working on a several gene-therapy approaches in the rare-disease area when they were bought out by...

- **Videos, Podcasts, Blogs等**
- **多媒体学术/科普平台**

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# Science数据库期刊资源介绍



Science的资源导航栏，点击相应选项卡可浏览旗下包含的资源

# Science

搜索框

新冠病毒专栏，  
内容全部免费

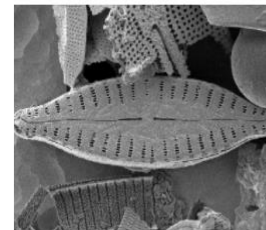
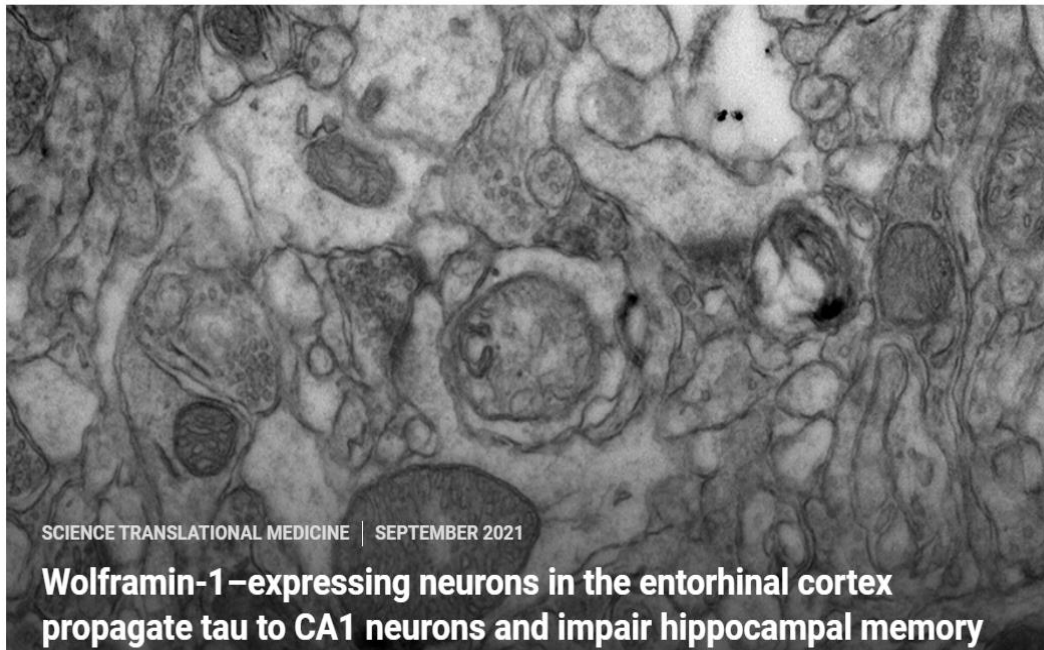
LOG IN

BECOME A MEMBER

NEWS CAREERS COMMENTARY JOURNALS ▾

COVID-19

GET OUR E-ALERTS



SCIENCE ADVANCES

17 SEP 2021

**Extinction of austral diatoms in response to large-scale climate dynamics in Antarctica**

BY EVELINE PINSEEL, BART VAN DE VIJVER, ET AL.

## LATEST NEWS

15 SEP 2021

**Milk fueled Bronze Age expansion of 'eastern cowboys' into Europe**

15 SEP 2021

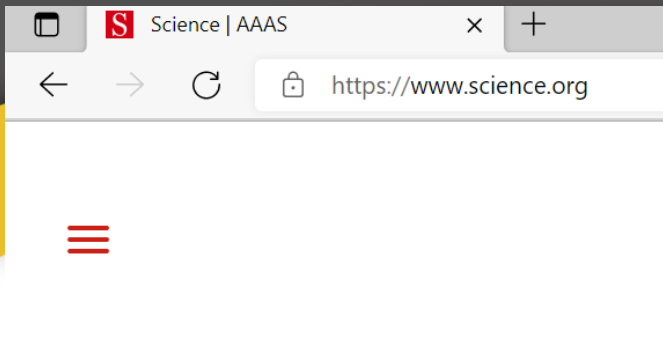
**Forget oil or water. In Iceland, well diggers seek to tap a volcano's magma**

15 SEP 2021

**SARS-like viruses may jump from animals to people hundreds of thousands of times a year**

15 SEP 2021

**Study of up to 40,000 people will probe mysteries of Long Covid**



稿件应提交到我们的稿件提交和信息门户<https://cts.sciencemag.org>。还可以在门户网站上跟踪提交的手稿的状态。



全面的信息服务提供商



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NEWS

CAREERS

COMMENTARY

JOURNALS

SCIENCE

SCIENCE ADVANCES

### Welcome to the Science Content Tracking System

This is the manuscript management site for authors, reviewers and advisors of the Science journals. Information for authors including manuscript templates can be found here:

- [Science](#)
- [Science Advances](#)
- [Science Immunology](#)
- [Science Robotics](#)
- [Science Signaling](#)
- [Science Translational Medicine](#)

Once you sign in or create a new account you may:

- Submit a new manuscript, or a new letter to the editor
- Submit a solicited manuscript
- Continue working on a submission
- Track a submitted manuscript
- Access manuscripts assigned to you as a reviewer and complete your review
- Access manuscripts assigned to you as an advisor and complete your evaluation

Thank you for submitting to our journals and for your assistance with the peer review process!

AAAS is an international non-profit organization and publisher dedicated to advancing science around the world by serving as an educator, leader, spokesperson and professional association.

Username/Email Address

Password

Sign In Forgot your password?

New to the site? [Create an account.](#)

Science的左侧导航栏，选择感兴趣的内容或快速搜索文章。

Science管理稿件的网站，进入之后可以投稿和稿件的管理

点击导航栏中的journals，选择  
您所需的期刊



NEWS

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Science



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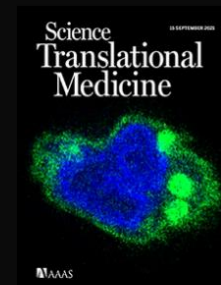
SCIENCE IMMUNOLOGY



SCIENCE ROBOTICS



SCIENCE SIGNALING



SCIENCE TRANSLATIONAL  
MEDICINE



SCIENCE  
JOURNAL

首次发布的文章，在正式期刊发布前  
在线发布的文章，后期会略作修改

# Science Translational Medicine

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First release papers

Archive

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当前期刊

档案 (往期期刊)

## FIRST RELEASE

Selected Science papers are published online ahead of print. Some editorial changes may occur between the online version and the final printed version.

14 SEP 2021

文章标题，点开后即可阅读全文

### Bispecific antibodies targeting distinct regions of the spike protein potently neutralize SARS-CoV-2 variants of concern



BY HYESEONCHO, KRISTINA KAYGONZALES-WARTZ, DELIHUANG, MENGYUAN, MARYPETERSON, JANIELIANG, NATHANBEUTLER, JONATHAN L.TORRES, YUCONG, ELENAPOSTNIKOVA, [...] JOSHUATAN, +29 authors • 14 SEP 2021

ADVERT

Jump-start  
your research

# ARCHIVE

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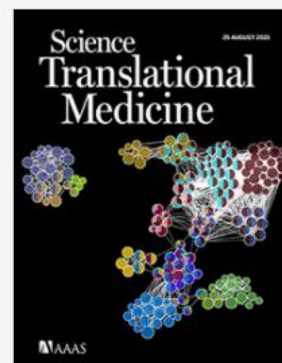
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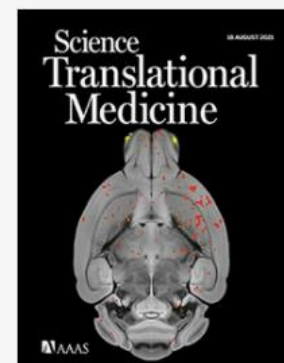
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**ONLINE COVER:** Advancing Adoptive Cell Therapy. This image shows epithelial cell adhesion molecule (EpCAM, green) in the cytoplasm of a cytotoxic T cell. The nucleus is shown in blue. A challenge in adoptive T cell therapy for cancer is avoiding exhaustion and death of T cells after transfer. To address this, Zhang *et al.* screened a library of microRNAs (miRs) to identify...

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#### What have we learned from the COVID-19 plague?



BY STANLEY A. PLOTKIN • 15 SEP 2021 

The COVID-19 pandemic has been devastating, but it enables us to learn from it and prepare for the next pandemic disease.

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9 SEP 2021

BY SARAH CRESPI, PAUL VOOSSEN

RESEARCH ARTICLE | CANCER

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## A small-molecule SUMOylation inhibitor activates antitumor immune responses and potentiates immune therapies in preclinical models

标题

ERIC S. LIGHTCAP, PENGFEI YU, STEPHEN GROSSMAN, KELI SONG, MITHUN KHATTAR, KRISTINA XEGA, XINGYUE HE, JAMES M. GAVIN, HISASHI IMAICHI

[...] DENNIS HUSZAR +21 authors Authors Info & Affiliations

SCIENCE TRANSLATIONAL MEDICINE • 15 Sep 2021 • Vol 13, Issue 611 • DOI: 10.1126/scitranslmed.aba7791



### Stopping SUMOylation to improve immune responses

SUMOylation, a reversible posttranslational modification, can suppress type I interferon responses, potentially affecting the response to cancer treatment. Here, Lightcap and colleagues studied the effects of TAK-981, a small-molecule SUMOylation inhibitor, on human and mouse immune cells, finding that the compound promoted the activation of dendritic cells and T cells. They then tested TAK-981 on syngeneic cancers in mice, showing that TAK-981 inhibited tumor growth and increased intratumoral T cells and natural killer cells. The combination of TAK-981 with immune checkpoint blockade further improved survival in these mice, suggesting that the combination treatment could be beneficial for the treatment of cancers in humans.

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### Abstract

SUMOylation, the covalent conjugation of small ubiquitin-like modifier (SUMO) proteins to protein substrates, has been reported to suppress type I interferon (IFN1) responses. TAK-981, a selective small-molecule inhibitor of SUMOylation, pharmacologically reactivates IFN1 signaling

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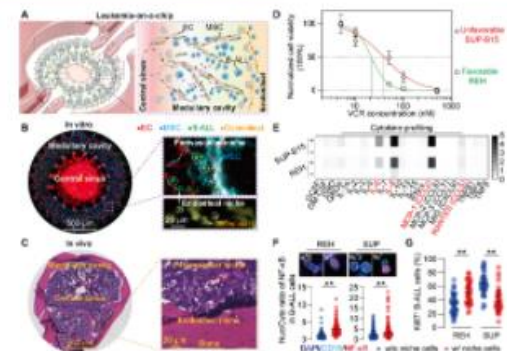
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**Fig. 1 Modeling the leukemic BM niche in a leukemia-on-a-chip platform.** (A) Schematic demonstrating the design of leukemia-on-a-chip that consists of three functional regions. (B) Whole scan of the resultant leukemic BM niche system, where the enlarged area shows the colocalization of murine B-ALL cells within the perivascular niche. The bottom insert shows colocalization in the endosteal niche. (C) Hematoxylin and eosin (H&E) staining image of the in vivo murine leukemic BM niche, with the enlarged area showing the colocalization of B-ALL cells within the perivascular and endosteal niches. (D) The chemoresistance was compared between the engineered human BM niches of *ETV6-RUNX1*<sup>+</sup> REH and *Ph*<sup>+</sup> SUP-B15 B-ALL. Each drug concentration had three or more experimental replicates. (E) The cytokine profiles from two B-ALL blasts with and without niche cells were quantified using membrane-based enzyme-linked immunosorbent assay (ELISA) analysis. MCP-1, monocyte chemoattractant protein-1; MIG, monokine induced by gamma interferon. (F) Quantification of nuclear (Nuc)/cytoplasmic (Cyto) ratio of NF-κB in REH and SUP B-ALL within their respective niche models. The ratios for REH and SUP were manually measured from three experimental replicates ( $n > 150$ ). (G) Percentage of Ki67<sup>+</sup> B-ALL cells, corresponding to (F). Data were collected from three experimental replicates. Unpaired t test (\*\* $P < 0.01$ , Mann-Whitney test). G-CSF, granulocyte colony-stimulating factor; GM-CSF, granulocyte-macrophage colony-stimulating factor; GRO,



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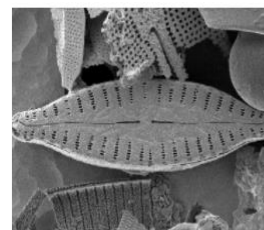
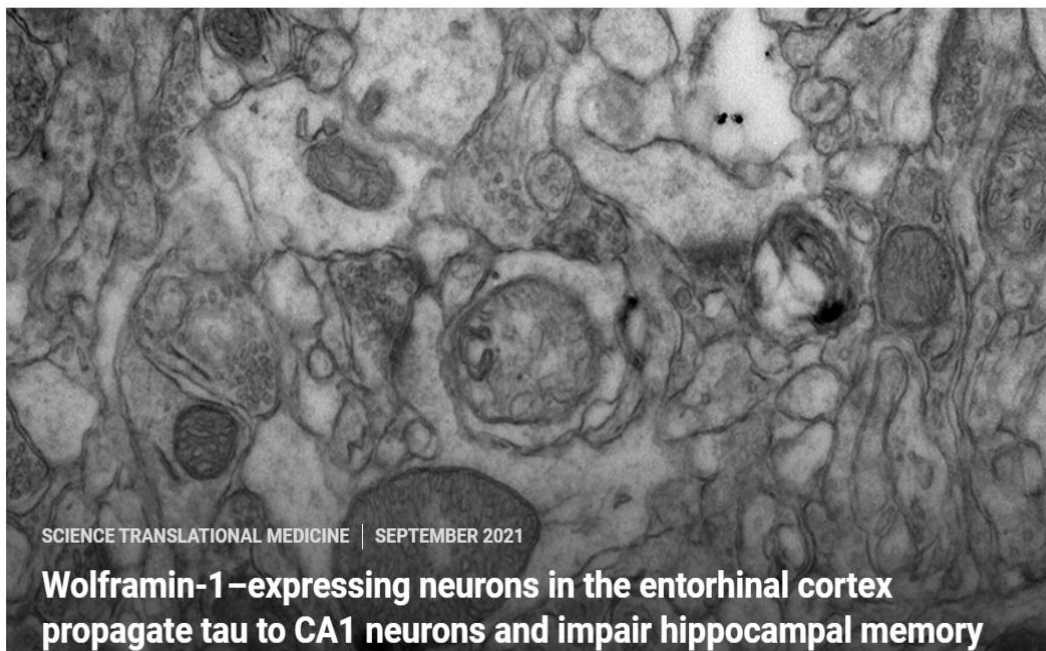
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SCIENCE ADVANCES • VOL. 7, NO. 30 • 21 JUL 2021 

Metabolic dysregulation underlies malignant phenotypes attributed to cancer stem cells, such as unlimited proliferation and differentiation blockade. Here, we demonstrate that NAD<sup>+</sup> metabolism enables acute myeloid leukemia (AML) to evade apoptosis, ...

RESEARCH ARTICLE  
**Leukemia-on-a-chip: Dissecting the chemoresistance mechanisms in B cell acute lymphoblastic leukemia bone marrow niche**  
BY CHAO MA, MATTHEW T. WITKOWSKI, JACOB HARRIS, IGOR DOLGALEV, SHEETAL SREERAM, WEIYI QIAN, JIE TONG, XIN CHEN, IANNIS AIFANTIS, WEIQIANG CHEN,  
SCIENCE ADVANCES • VOL. 6, NO. 44 • 30 OCT 2020 

B cell acute lymphoblastic leukemia (B-ALL) blasts hijack bone marrow niches to evade chemoprotective leukemic BM “niches,” facilitating chemoresistance and, ultimately, disease relapse. However, the

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BY IRENE ROBERTS, PARESH VYAS • SCIENCE • VOL. 373, NO. 6551 • 09 JUL 2021: 155-156 

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SCIENCE TRANSLATIONAL MEDICINE • VOL. 12, NO. 561 • 16 SEP 2020 🔒

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**RESEARCH ARTICLE**

**Metabolic reprogramming of donor T cells enhances graft-versus-leukemia effects in mice and humans** 🔖

BY FRANZISKA M. UHL, SOPHIA CHEN, DAVID O'SULLIVAN, JOY EDWARDS-HICKS, GESA RICHTER, EILEEN HARING, GEOFFROY ANDRIEUX, SEBASTIAN HALBACH, PETYA APOSTOLOVA, JÖRG BÜSCHER, [...] ROBERT ZEISER. +14 authors • SCIENCE TRANSLATIONAL MEDICINE VOL. 12, NO. 567 • 28 OCT 2020 🔒

Acute myeloid **leukemia** (AML) relapse after allogeneic hematopoietic cell transplantation (allo-HCT) has a dismal prognosis. We found that T cells of patients relapsing with AML after allo-HCT exhibited reduced glycolysis and interferon- $\gamma$  production. ...

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**RESEARCH ARTICLE**

**B cell acute lymphoblastic leukemia cells mediate RANK-RANKL-dependent bone destruction** 🔖

BY SULOETHA A. RAJAKUMAR, ENIKO PAPP, KATHY K. LEE, ILDIKO GRANDAL, DANIELE MERICO, CAREESA C. LIU, BEDILU ALLO, LUCIA ZHANG, MARC D. GRYNPAS, MARK D. MINDEN, [...] JAYNE S. DANSKA. +2 authors • SCIENCE TRANSLATIONAL MEDICINE • VOL. 12, NO. 561 16 SEP 2020 🔒

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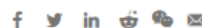
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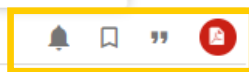
## Immunity elicited by natural infection or Ad26.COV2.S vaccination protects hamsters against SARS-CoV-2 variants of concern

LISA H. TOSTANOSKI, JINGYOU YU, NOE B. MERCADO, KATHERINE MCMAHAN, CATHERINE JACOB-DOLAN, AMANDA J. MARTINOT

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Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) variants of concern have emerged and may pose a threat to both the efficacy of vaccines based on the original WA1/2020 strain as well as to natural immunity induced by infection with earlier SARS-CoV-2 variants. We investigated how mutations in the spike protein of circulating SARS-CoV-2 variants, which have been shown to partially evade neutralizing antibodies, impact natural and vaccine-induced immunity. We adapted a Syrian hamster model of moderate to severe clinical disease for two variant strains of SARS-CoV-2: B.1.1.7 ( $\alpha$  variant) and B.1.351 ( $\beta$  variant). We then assessed the protective efficacy conferred by either natural immunity from WA1/2020 infection or by vaccination with a single dose of the adenovirus serotype 26 vaccine, Ad26.COV2.S. Primary infection with the WA1/2020 strain provided potent protection against weight loss and viral replication in lungs following re-challenge with WA1/2020, B.1.1.7, or B.1.351. Ad26.COV2.S induced cross-reactive binding and neutralizing antibodies that were reduced against the B.1.351 strain compared with WA1/2020, but nevertheless still provided robust protection against B.1.351 challenge, as measured by weight loss and pathology scoring in the lungs. Taken together, these data support hamsters as a pre-clinical model to study protection against emerging variants of SARS-CoV-2 conferred by prior infection or vaccination.



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