

Science



advance science, engineering, and innovation

目录

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- Science数据库介绍
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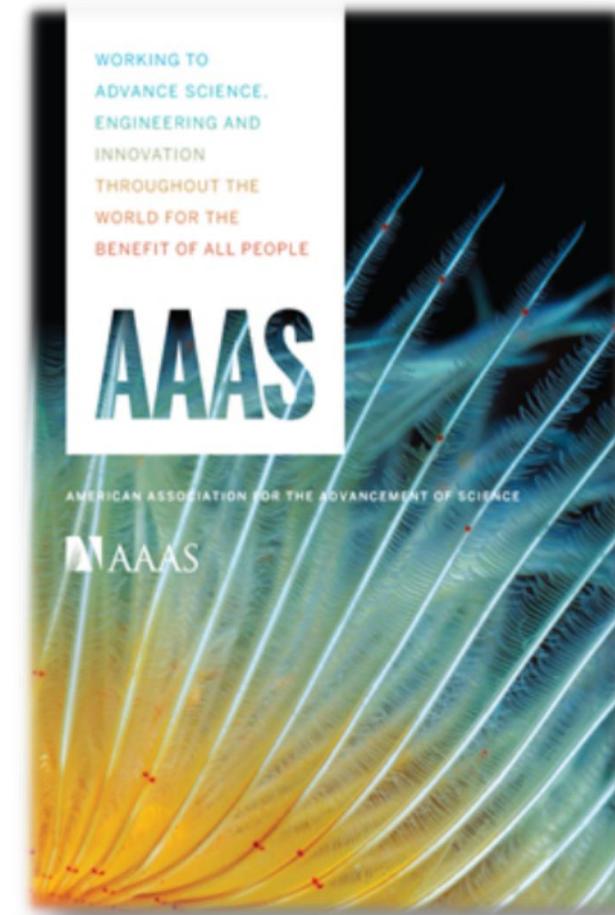
Science出版社与期刊

AAAS

AAAS：美国科学促进会创于1848年，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

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AAAS Journal publisher and so much more

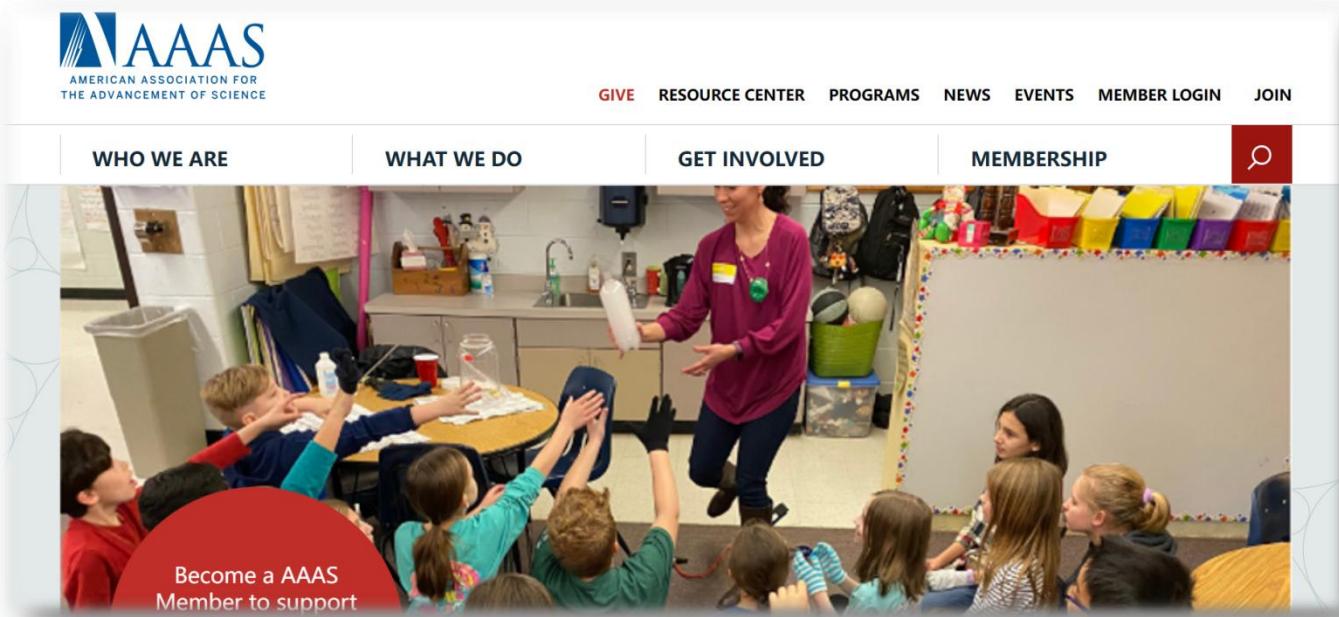
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CAREERS

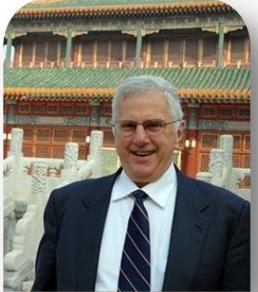


Science

- 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**”。
- 涵盖多种学科
 - LIFE SCIENCES (50%)
 - PHYSICAL SCIENCES (35%)
 - OTHER SUBJECTS (15%, 社会, 政治, 人类, 宗教)



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



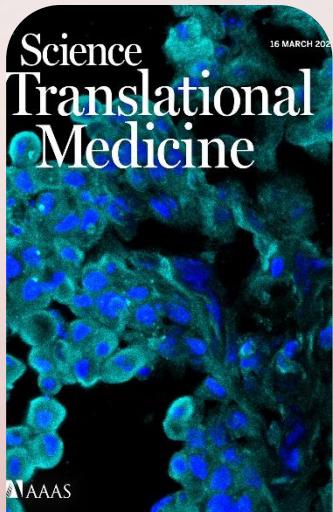
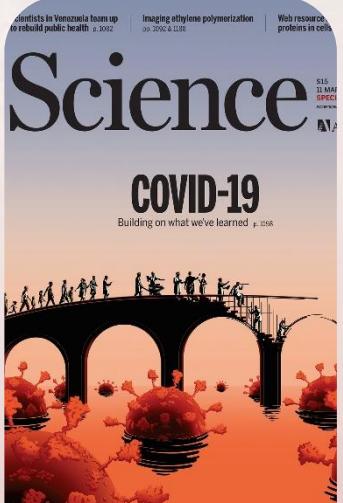
2014年1月13日下午，美国《科学》杂志主编麦克纳特女士拜访了国务院总理李克强。《Li and Me》<http://news.sina.com.cn/c/2014-04-05/202229873367.shtml>



2017年4月17日，Science杂志主编Jeremy Berg博士到访清华大学，参观访问了结构生物学高精尖创新中心，并与生命学院、医学院、药学院的部分师生开展了讨论会议。此次访华推动了Science与中国地区的合作。

science 系列期刊

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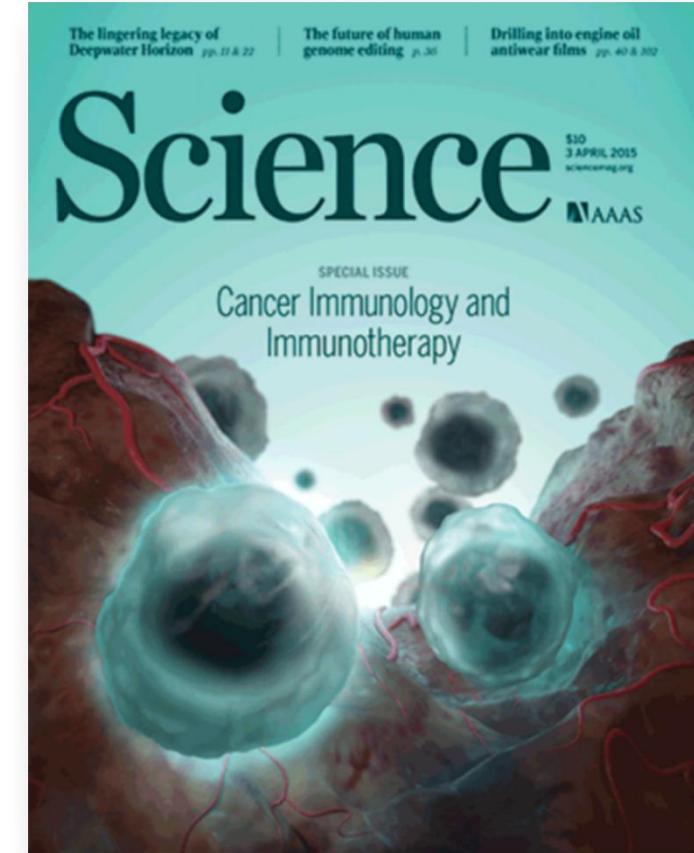
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- 《科学转化医学》 (Science Translational Medicine)
- 《科学信号》 (Science Signaling)
- 《科学免疫学》 (Science Immunology)
- 《科学机器人》 (Science Robotics)
- 《科学进展》 (Science Advances)

涵盖学科

综合期刊, 生命科学, 自然科学, 其他学科。

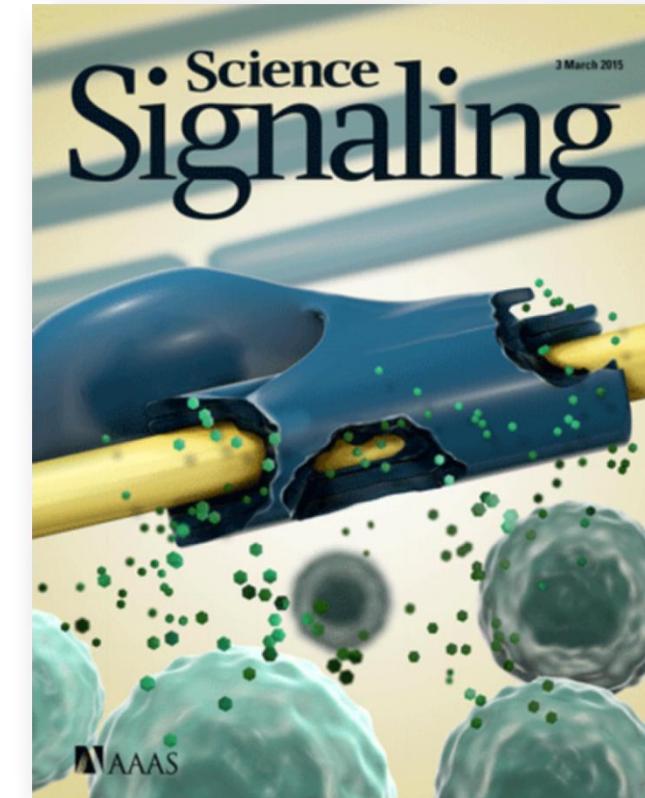
系列期刊-*Science* 《科学》

- 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%)
- 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%；



系列期刊-Science Signaling 《科学信号》

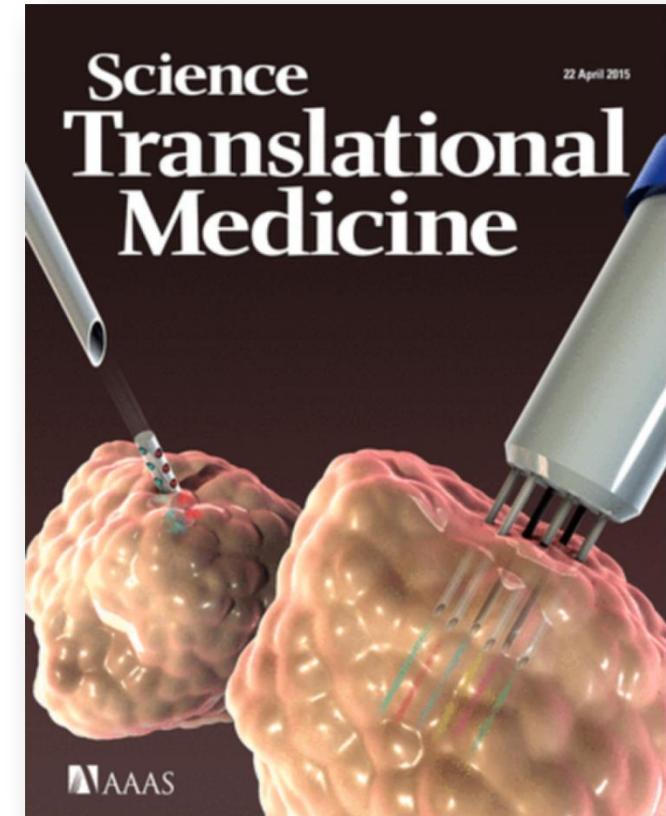
- 创刊于1999年，原Science STKE —《细胞信号转导》，是美国科学促进会（AAAS）旗下研究细胞信号转导的官方刊物。
- **研究范围：**生物化学、生物信息学、细胞生物学、分子生物学、微生物学、系统生物学、免疫学、神经科学、药理学、生理学。
- **期刊品质：**在生物化学、分子生物学及细胞生物学领域名列前茅。



系列期刊-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。2020年影响因子为17.956。



系列期刊-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：**秉承严格收录标准、审稿流程；一经出版便被SCI收录。



系列期刊-*Science Robotics* 《科学机器人》

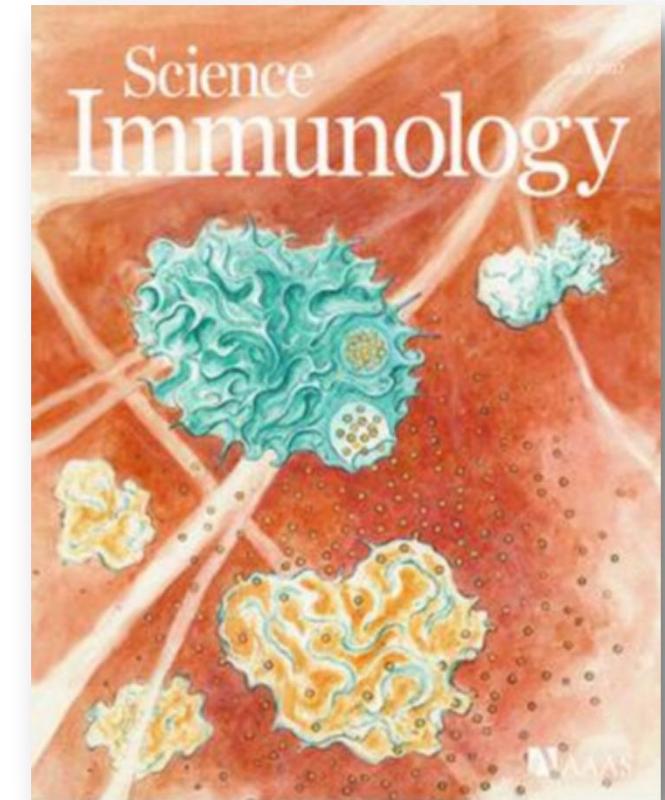
- 创刊于2016年
- 特点: 交叉学科, 内容涵盖广泛
- 研究范围: 基础科学, 计算机科学, 工程, 医学, 既包含了机器人学的传统法则
也包含很多新兴的发展动态和趋势, 例如先进材料和仿生设计, 涉及微米/纳米机器人, 陆地/海底机器人, 人工智能, 机器人生物材料等
- 期刊品质: 机器人学的传统学科
先进材料和仿生设计等新兴趋势



系列期刊 - *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；所有文献经由同行评审，全部为以科学为基础的原创性文献，涉及免疫学相关的重要研究进展、新的医疗工具和新技术的应用等。
- 期刊品质：在免疫学中名列前茅。



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Science数据库介绍

新平台—满足研究界和出版方不断变化的需求

- 内容视图更集中
- 功能模块显著提升：增强搜索、作者工具和以读者体验为中心的重新设计
- 内部效率和灵活性的变化

Science

NEWS CAREERS COMMENTARY JOURNALS COVID-19



SCIENCE SIGNALING | 31 JANUARY 2023
CCR2 keeps signaling and scavenging separated
THOMAS M. SHROKA, IRINA KUFAREVA, ET AL.
Proteins involved in chemokine signaling mediated by CCR2 are not required for its scavenging function.

SCIENCE IMMUNOLOGY | 27 JAN 2023
Human T-independent B cell responses are pre-diversified
BY SANDRA WELLER, DELPHINE STERLIN, ET AL.

SCIENCE ADVANCES | 25 JAN 2023
Microbubbles disrupt infective bacterial biofilms
BY WEIJUN XIU, LILI REN, ET AL.

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High-speed legged locomotion on deformable terrain
BY SUYOUNG CHOI, GWANGHYEON JI, ET AL.

SCIENCE | 26 JAN 2023
Nucleosynthetic anomalies in meteorites
BY NICOLE X. NIE, DA WANG, ET AL.

SCIENCE | 26 JAN 2023
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Protein decoys for viruses may battle COVID-19 and more

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Stories of scientific collisions
Ep. 1: It all starts with "Hello"

“

The ranking of universities and colleges at the national and global level is a well-known dubious practice.

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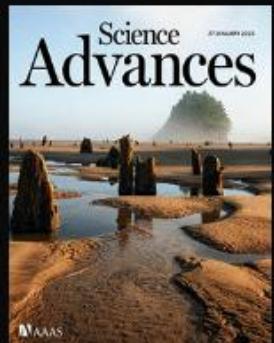


NEWS CAREERS COMMENTARY JOURNALS ^

COVID-19



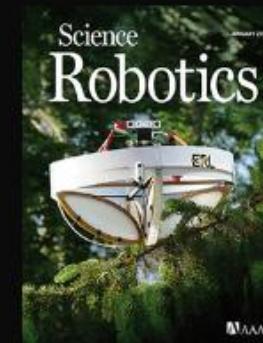
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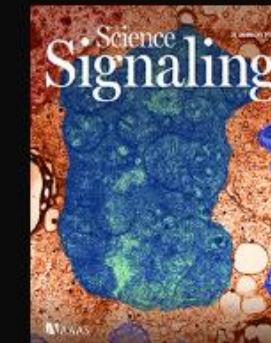
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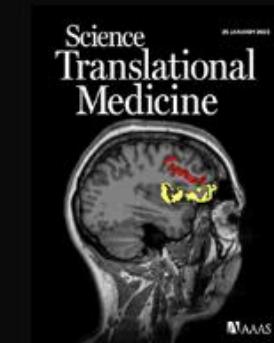
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- ***Science News***

- *Science*新闻组每天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；也会提供每周出版的*Science Magazine*中收录的新闻类文章。以简洁扼要的内容，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***

- 为科学家们谋职、寻找基金支助项目或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经验。

- ***Science First Release***

- 提供精选文章快速在线发表，可先于印刷媒体四到六周，自发布日起即为发表，并可以被引用。

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NEWS FROM SCIENCE



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BY JOCELYN KAISER, JEFFREY BRAINARD



NEWS | 31 JAN. 2023
Want to avoid a heated argument? This trick could help

BY CLAUDIA LOPEZ LLOREDA



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Postdocs need raises. But who will foot the bill?

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When alpha mice are trounced by weaklings, they spiral into depression

BY EMILY UNDERWOOD

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Protein decoys for viruses may battle COVID-19 and more

BY ROBERT F. SERVICE



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BY POURIA NAZEMI

NEWS | 26 JAN 2023
News at a glance: HIV vaccine failure, AI meteorite detective, and the Doomsday Clock

BY SCIENCE NEWS STAFF

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U.S. scientists brace for tighter scrutiny of potentially risky research

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BY KATIF I ANGIN

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BY KEISHA HARDEMAN



20 JAN 2023

Teaching evaluations reflect—and may perpetuate—academia's gender...

BY LUIS MELECIO-ZAMBRANO



WORKING LIFE
19 JAN 2023

How I learned to talk about climate science with skeptical audiences

BY SYLVIA DEE

EXPERIMENTAL ERROR

3 JAN 2023

New science jargon for the new year

BY ADAM RUBEN

19 DEC 2022

Grad student unions strike controversial deal with University of California

BY KATIF I ANGIN

Commentary

Commentary Home Opinion Analysis Blogs

按观点，分析和博客分类的评论文章

HOME > COMMENTARY

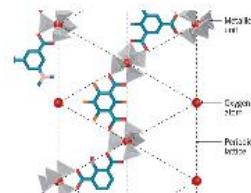
COMMENTARY



POLICY FORUM | 26 JAN 2023 | SCIENCE

Farm animal welfare: Beyond "natural" behavior

BY MARIAN STAMP DAWKINS



PERSPECTIVES

26 JAN 2023 | SCIENCE

Decoding complex order in reticular frameworks

BY OMAR M. YAGHI,
ZICHAO RONG



PERSPECTIVES

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Earth's persistent thermostat

BY ROBERT G. HILTON

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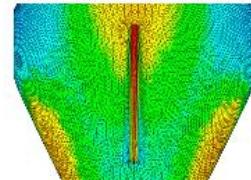
Neurons share an intense load

BY PAUL R. MARTIN

EDITORIAL | 26 JAN 2023
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ChatGPT is fun, but not an author

BY H. HOLDEN THORP



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SCIENCE TRANSLATIONAL MEDICINE

Engineering is pregnant with possibilities

BY MICHELLE L. OYEN



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SCIENCE ROBOTICS

A retrospective of Isaac Asimov at 102 and his Three Laws

BY ROBIN R. MURPHY

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Robotic probes at the cell scale

BY JOSÉ A. PLAZA

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BY ROBERT M. CALIFF, PETER W. MARKS

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- 首次发表论文被视为在发布之日发表，并且自该日起**即可被引用**。

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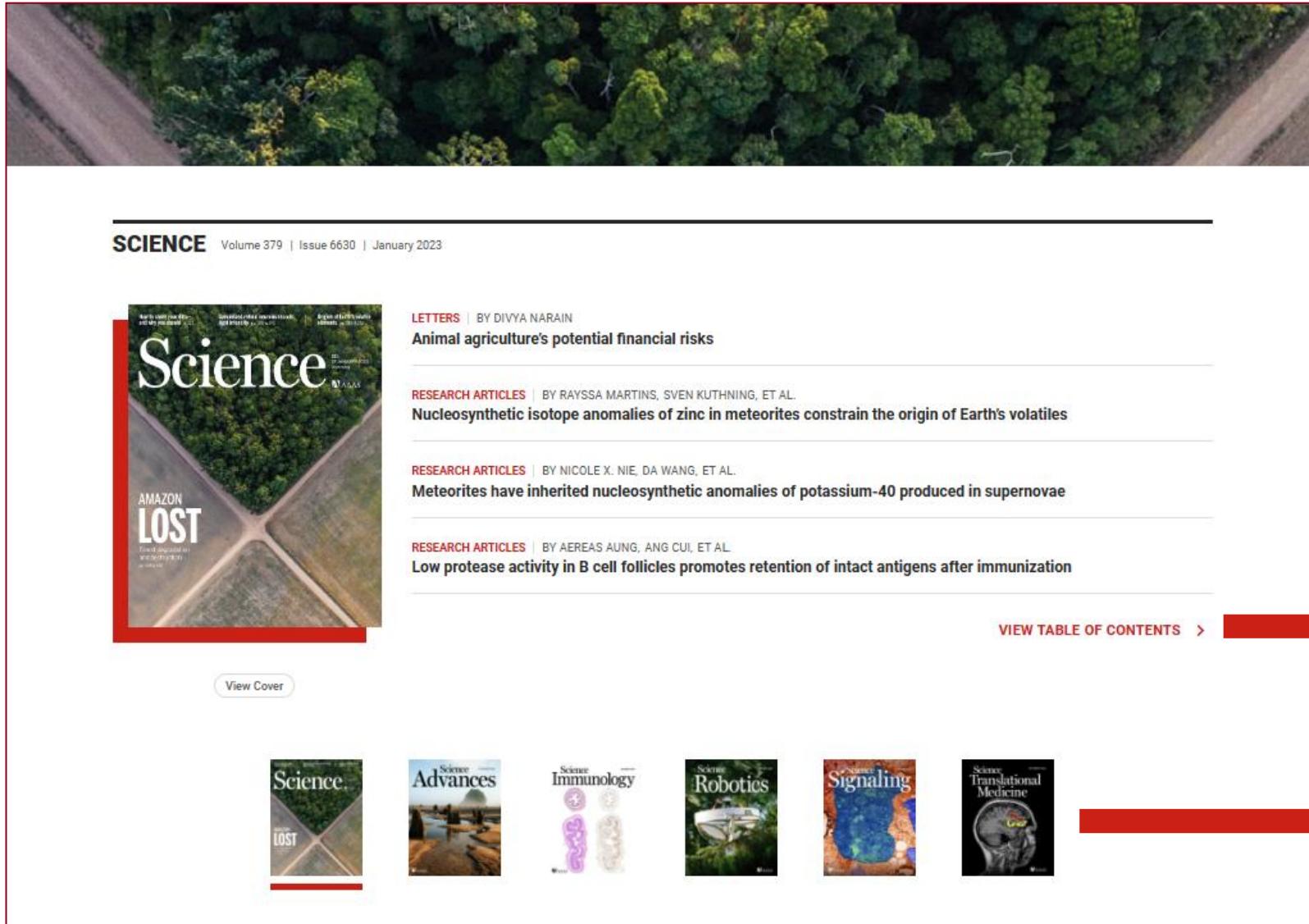
SCIENCE | 22 DEC 2022

The magmatic web beneath Hawai'i

+ MORE FIRST RELEASE PAPERS

紧接着是**期刊目录**，只需单击期刊封面即可查看当前一期内容。

最新期刊目录



SCIENCE Volume 379 | Issue 6630 | January 2023

LETTERS | BY DIVYA NARAIN
Animal agriculture's potential financial risks

RESEARCH ARTICLES | BY RAYSSA MARTINS, SVEN KUTHNING, ET AL.
Nucleosynthetic isotope anomalies of zinc in meteorites constrain the origin of Earth's volatiles

RESEARCH ARTICLES | BY NICOLE X. NIE, DA WANG, ET AL.
Meteorites have inherited nucleosynthetic anomalies of potassium-40 produced in supernovae

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Low protease activity in B cell follicles promotes retention of intact antigens after immunization

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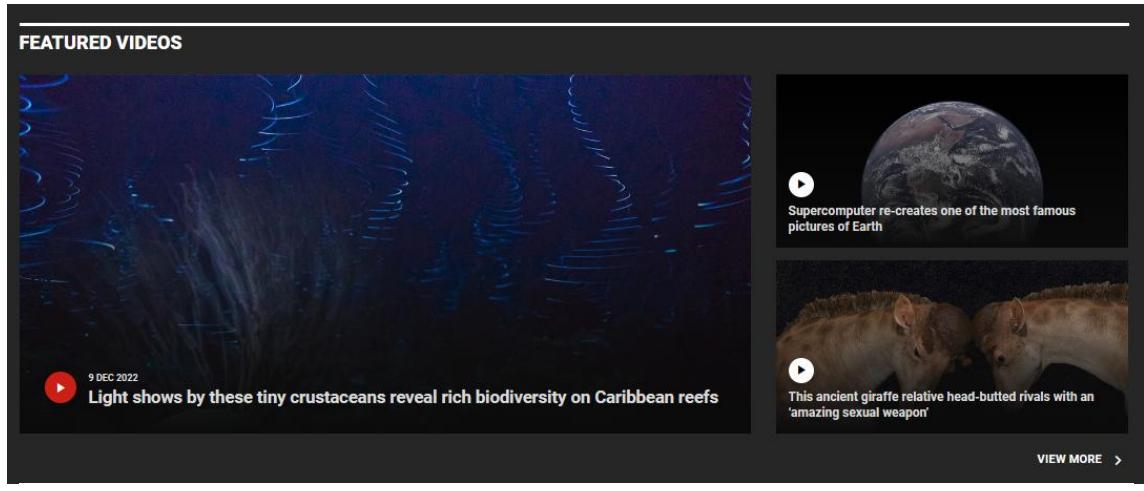
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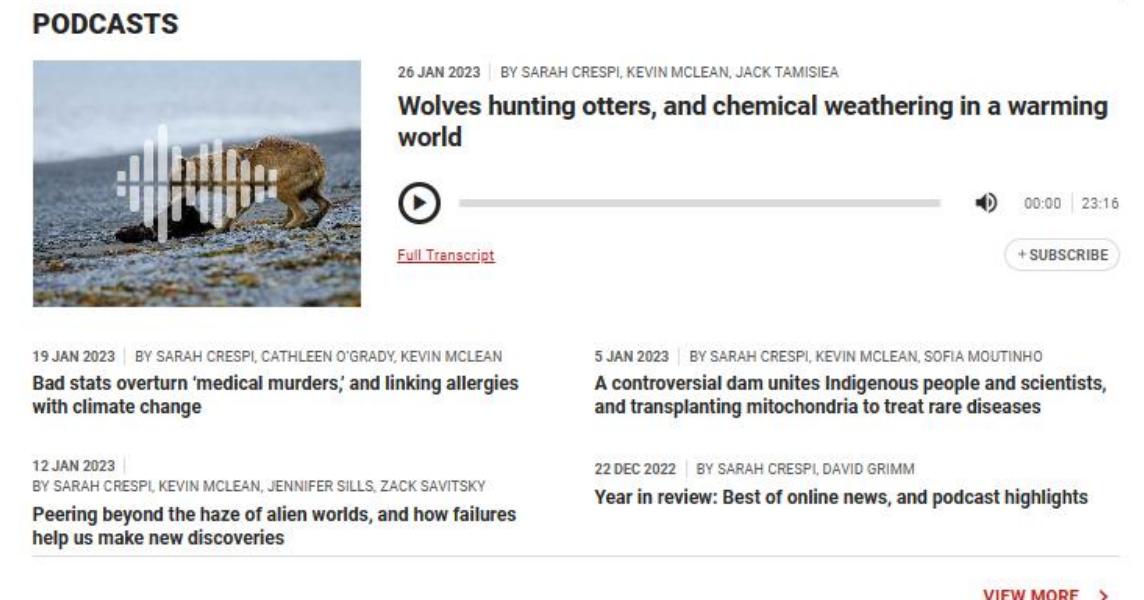
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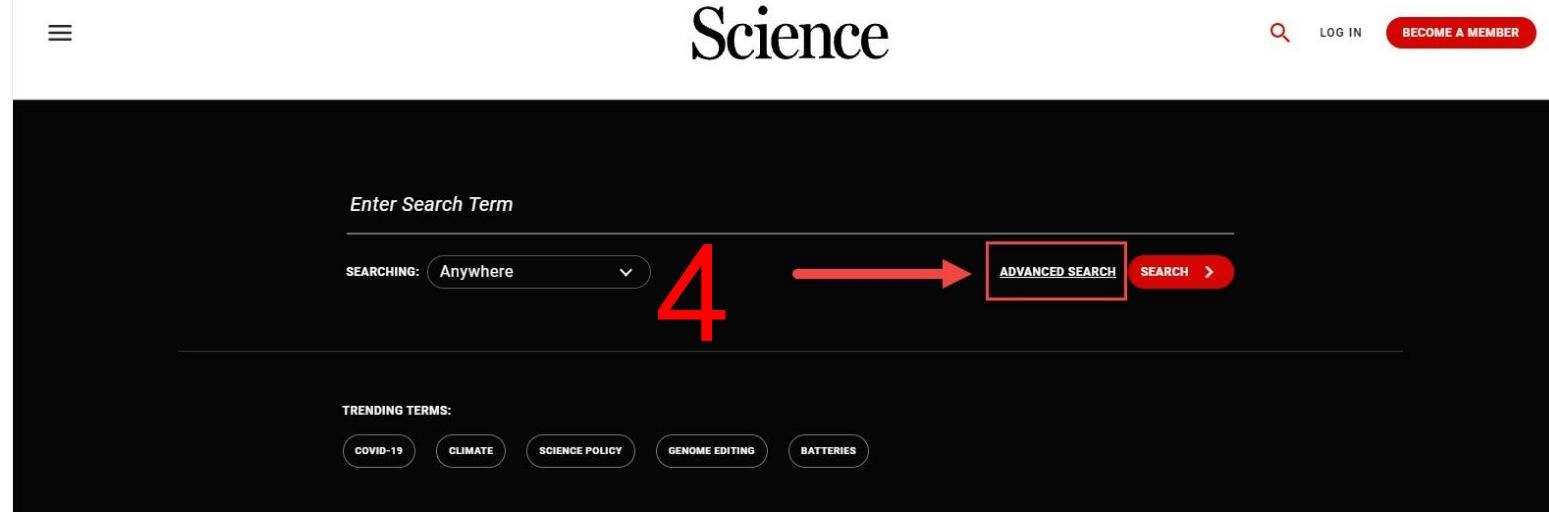
音频文件：每周科学播客的主持人莎拉·克雷斯皮，会与来自世界各地的研究人员、新闻记者等一起探讨最新的科学发现。



3

使用Science数据库

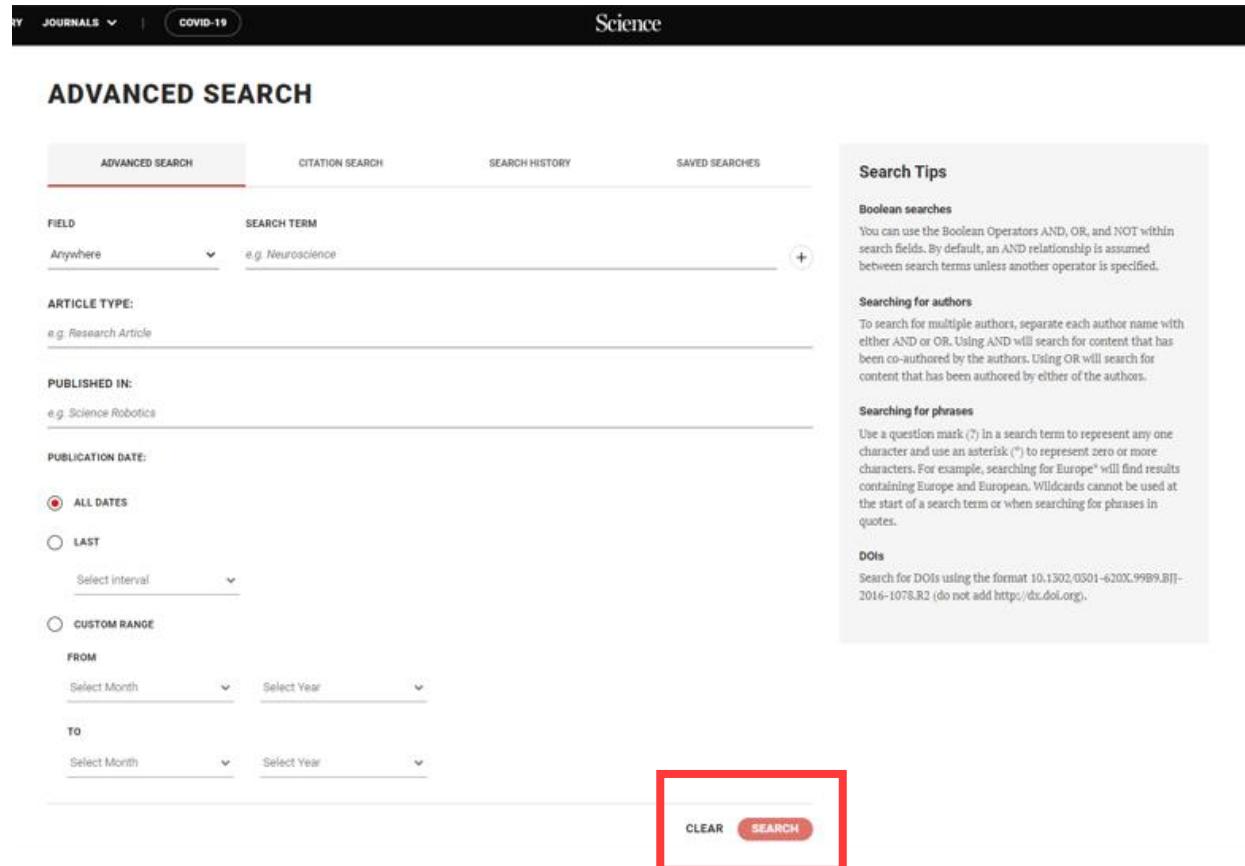
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Advanced Search

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- **字段:** 标题、作者、关键字、摘要等
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- **选择子刊:** 从我们的六种期刊中选择一种或多种 (*Science*、*Science Advances*、*Science Immunology*、*Science Signaling*、*Science Translational Medicine* 和 *Science Robotics*)。
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The screenshot shows the 'ADVANCED SEARCH' page of the Science journal's website. At the top, there are tabs for 'ADVANCED SEARCH', 'CITATION SEARCH', 'SEARCH HISTORY', and 'SAVED SEARCHES'. The 'SEARCH TERM' field contains 'e.g. Neuroscience'. Below it, there are fields for 'ARTICLE TYPE' (set to 'Research Article'), 'PUBLISHED IN' (set to 'e.g. Science Robotics'), and 'PUBLICATION DATE' (set to 'ALL DATES'). The 'FROM' and 'TO' date fields are partially visible. On the right side, there is a 'Search Tips' sidebar with sections for 'Boolean searches', 'Searching for authors', 'Searching for phrases', and 'DOIs'.

添加限制条件，单击右下角的红色 Search (搜索) 按钮。

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Science

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Science

Volume Issue Page Year

SEARCH

Search Tips

Boolean searches
You can use the Boolean Operators AND, OR, and NOT within search fields. By default, an AND relationship is assumed between search terms unless another operator is specified.

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To search for multiple authors, separate each author name with either AND or OR. Using AND will search for content that has been co-authored by the authors. Using OR will search for content that has been authored by either of the authors.

Searching for phrases
Use a question mark (?) in a search term to represent any one character and use an asterisk (*) to represent zero or more characters. For example, searching for Europe* will find results containing Europe and European. Wildcards cannot be used at the start of a

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显示全部搜索历史，点击链接直接进入结果页。

Science

SEARCH HISTORY

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All_covid_(2019)**	2 SEP 2021

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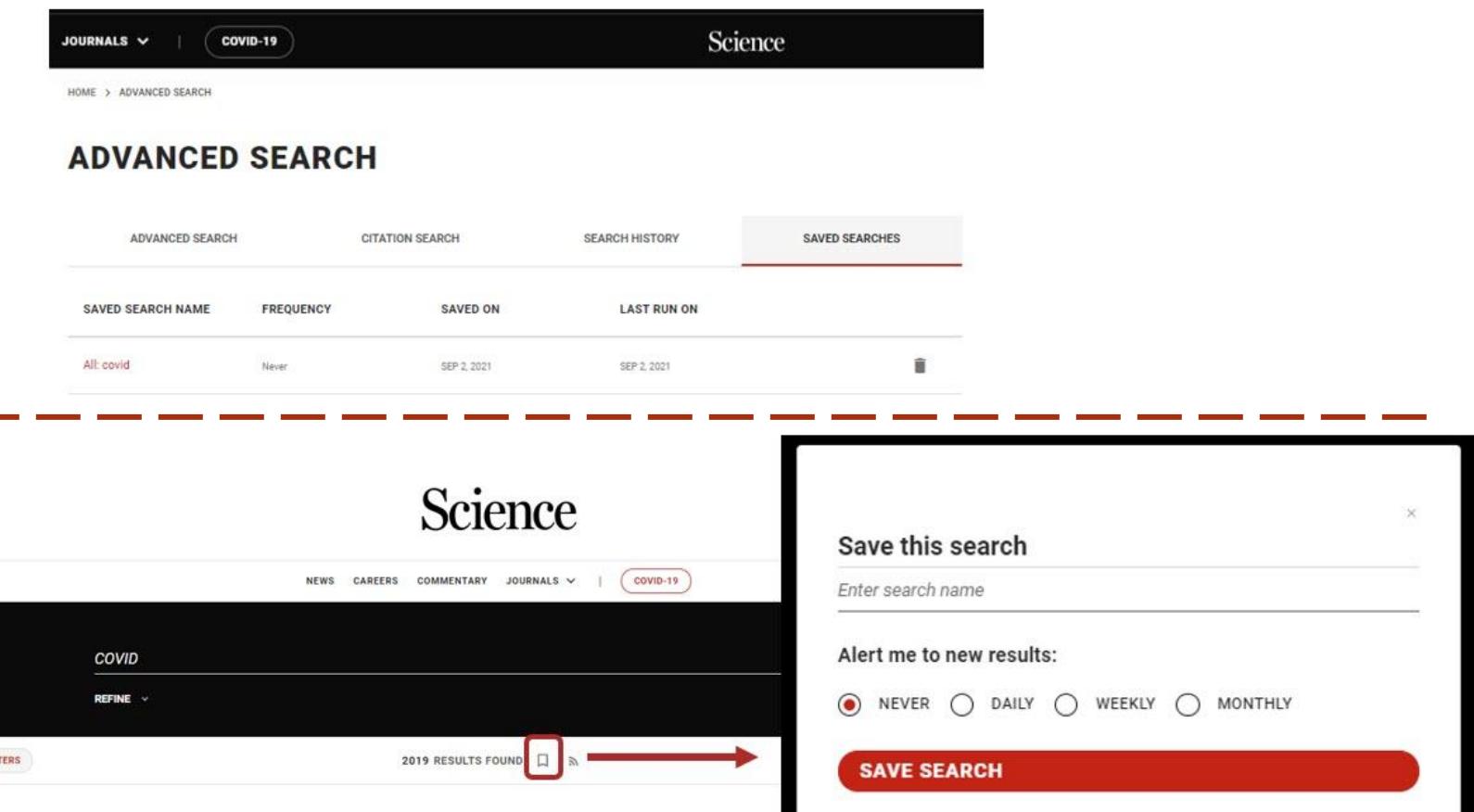
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Search for DOIs using the format 10.1302/0301-620X.99B9.BJJ-2016-1078.R2 (do not add <http://dx.doi.org/>).

Saved Search

进入搜索结果页面，单击Save Search 图标输入名称以保存结果，同时可以设置新消息提醒频率 。

高级检索“SAVED SEARCHES”标签下，可查看、管理保存的词条



The screenshot displays the Science journal's website interface. At the top, there is a navigation bar with 'JOURNALS' (dropdown), 'COVID-19' (highlighted in a red oval), and 'Science'. Below the navigation is a breadcrumb trail 'HOME > ADVANCED SEARCH'. The main content area is titled 'ADVANCED SEARCH' and includes tabs for 'ADVANCED SEARCH', 'CITATION SEARCH', 'SEARCH HISTORY', and 'SAVED SEARCHES' (which is currently selected, indicated by a grey background). A table below these tabs shows a single saved search entry: 'SAVED SEARCH NAME: All: covid', 'FREQUENCY: Never', 'SAVED ON: SEP 2, 2021', and 'LAST RUN ON: SEP 2, 2021'. A red dashed line highlights this table. Below this, the 'Science' journal homepage is visible, showing a search bar with 'COVID' and a 'REFINE' dropdown. A red arrow points to the search bar on the homepage. A modal window titled 'Save this search' is overlaid on the page. It contains a text input field 'Enter search name' and a section 'Alert me to new results:' with radio buttons for frequency: 'NEVER' (selected), 'DAILY', 'WEEKLY', and 'MONTHLY'. A large red button at the bottom of the modal is labeled 'SAVE SEARCH'.

检索结果页面点击 ，完成设置即可保存检索词条



期刊数据库

Science为例

The screenshot shows the homepage of the Science journal website. At the top, there are four red speech bubble callouts with Chinese labels pointing to menu items: '当前期刊' (Current Issue) points to 'Current Issue', '首次发表' (First release papers) points to 'First release papers', '往期期刊' (Archive) points to 'Archive', and '作者中心' (Author Center) points to 'Information for Authors' in the sidebar menu. The main content area features a large illustration of a running track with a runner in motion. Below the illustration, the text 'LETTERS | 6 JAN 2022' and 'Back in person, back to the races' is displayed. To the right, there is a sidebar with a list of links: 'About Science', 'Mission & Scope', 'Editors & Advisory Boards', 'Editorial Policies', 'Information for Authors' (which is highlighted with a red box and an arrow), 'Information for Reviewers', 'Journal Metrics', 'Staff', and 'Contact Us'. Further to the right, there are two news snippets: one for 'Letters' dated '6 JAN 2022' with the title 'The pandemic whistleblower' and another for 'Reports' dated '11 NOV 2021' with the title 'Dendritic spines' electrical function?'. At the bottom, there is an 'ADVERTISEMENT' section.

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25 NOVEMBER

Volume 378 | Issue 6622



18 NOVEMBER

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11 NOVEMBER

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4 NOVEMBER

Volume 378 | Issue 6619



28 OCTOBER

Volume 378 | Issue 6618



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Science Science Science Science Science Science

期刊数据库-文章详情页

RESEARCH ARTICLE | T CELLS

f t in gd em

Infant T cells are developmentally adapted for robust lung immune responses through enhanced T cell receptor signaling

一键分享

PUSPA THAPA , REBECCA S. GUYER, ALEXANDER Y. YANG, CHRISTOPHER A. PARKS , TODD M. BRUSKO , MAIGAN BRUSKO , THOMAS J. CONNORS , AND DONNA L. FARBER  [Authors Info & Affiliations](#)

SCIENCE IMMUNOLOGY • 10 Dec 2021 • Vol 6, Issue 66 • DOI: 10.1126/sciimmunol.abj0789

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正文内容；参考文献在底部

Connection of the youth

Infants have less developed immune systems than adults but can still respond to a plethora of infections and in some cases better than adults. To better understand how this occurs with respect to T cell immunity, Thapa *et al.* used a co-adoptive transfer model of infant and adult mouse CD4⁺ T cells into mice that were subsequently infected with influenza. Infant CD4⁺ T cells were more able to get to the lungs and divided more than adult cells after infection. This correlated to increased sensitivity of infant CD4⁺ T cells to TCR activation due to enhanced immune synapse formation and subsequent downstream signaling. Thus, during influenza infection, infant CD4⁺ T cells are more sensitive to TCR stimuli than adult CD4⁺ T cells.



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期刊数据库-文章标签栏

IN B CELL **Information & Authors** **X**

INFORMATION **AUTHORS**

Published In

**SCIENCE ADVANCES**
Volume 6 | Issue 44
October 2020

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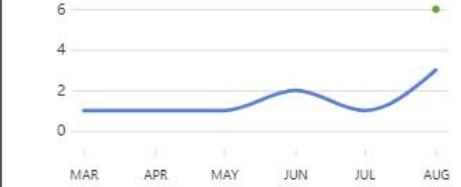
Acknowledgments

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FIGURES **MULTIMEDIA**

(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*⁺ REH and *Ph*⁺ SUP15 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- κ B 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⁺ B-ALL cells, corresponding to **(F)**. Data were collected from three experimental replicates. Unpaired t test ($^{**}P < 0.01$, Mann-Whitney test). GCSF, granulocyte colony-stimulating factor; GM-CSF, granulocyte-macrophage colony-stimulating factor; GRO, granulocyte colony-stimulating factor.

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 area. 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*⁺ REH and *Ph*⁺ SUP15 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- κ B 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⁺ B-ALL cells, corresponding to **(F)**. Data were collected from three experimental replicates. Unpaired t test ($^{**}P < 0.01$, Mann-Whitney test). GCSF, granulocyte colony-stimulating factor; GM-CSF, granulocyte-macrophage colony-stimulating factor; GRO, granulocyte colony-stimulating factor.

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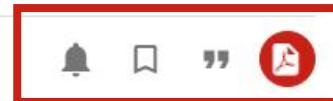
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Nucleosynthetic anomalies in meteorites

The origins of the material that accreted to form Earth can be constrained using meteorites that contain leftover material from planet formation. Nucleosynthetic anomalies are small differences in isotope ratios left by incomplete mixing of presolar material. They are already known for refractory elements, which condense into dust grains first, but it has been unclear whether more volatile elements were fully mixed before planet formation. In two complementary papers, Martins *et al.* and Nie *et al.* identified nucleosynthetic anomalies in the moderately volatile elements zinc and potassium, respectively. They used cosmochemical models to do



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The screenshot shows the Science magazine website. At the top, there is a navigation bar with links to 'Current Issue', 'First release papers', 'Archive', 'About', 'Submit manuscript', and a 'GET OUR E-ALERTS' button, which is highlighted with a red box and a red arrow pointing down to it. Below the navigation is a banner featuring a sunset over a running track with four people running. To the right of the banner is a photo of a man in a suit sitting at a desk in an office, with the text 'FEATURE | 6 JAN 2022' below it. The main content area is titled 'MY ACCOUNT' and contains a sidebar with links to 'Manage AAAS ID in My Profile', 'My Account' (which is selected and highlighted with a red box), 'ACCESS ENTITLEMENTS', 'ALERTS' (which is also highlighted with a red box), 'BOOKMARKS', and 'SAVED SEARCHES'. The main content area under 'ALERTS' has tabs for 'ALERTS AND NEWSLETTERS' (which is selected and highlighted with a red box) and 'CITATION ALERTS'. Below the tabs is a section titled 'Manage your email preferences.' with a description of the service and a 'MANAGE EMAIL PREFERENCES >' button.

可以从主页, GET OUR E-ALERTS 进入提醒邮件设置也可以在我的账户, ALERTS AND NEWSLETTERS中点击红色按钮进行邮件设置

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