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Science

AAAS

数据库使用指南

目录

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

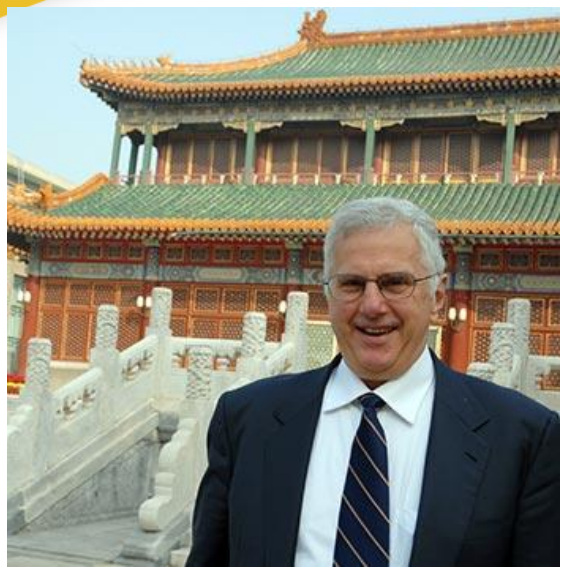
AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AAAS

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

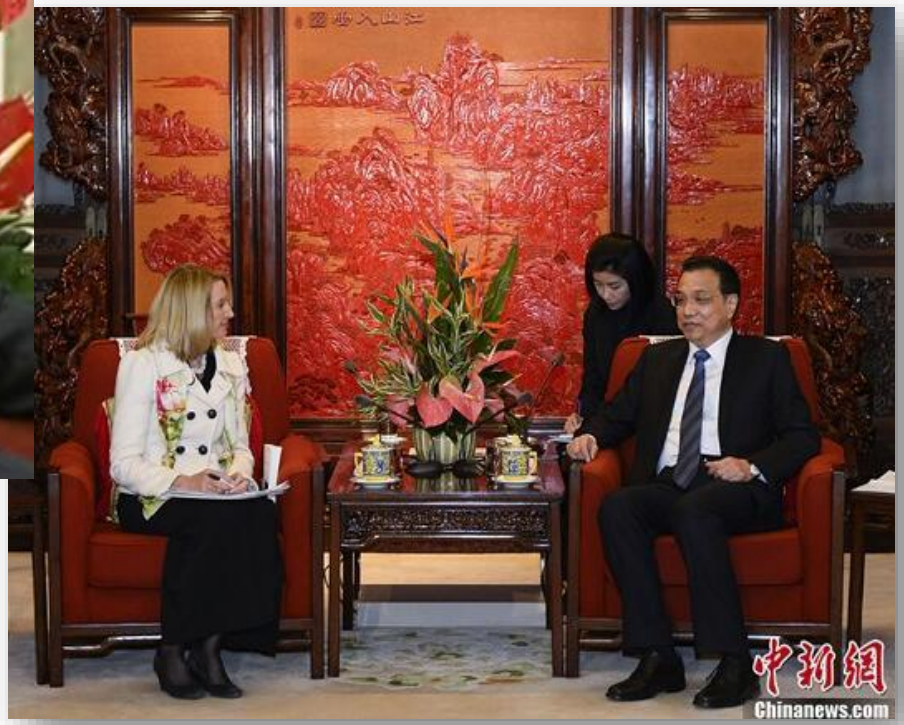


2008年9月30日，中国国务院总理温家宝在中南海紫光阁会见了到访的美国《科学》杂志主编布鲁斯·艾伯茨 。

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.sciencemagazine.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

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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

http://news.sina.com.cn/c/2014-04-05/202229873367.shtml

Science 和中国

Editor in Chief: Jeremy Berg, PhD

原清华大学副校长：施一公教授

http://www.icsb.tsinghua.edu.cn/info/xwsj_sjzx/1762

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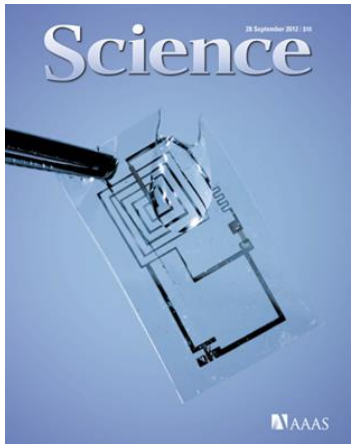
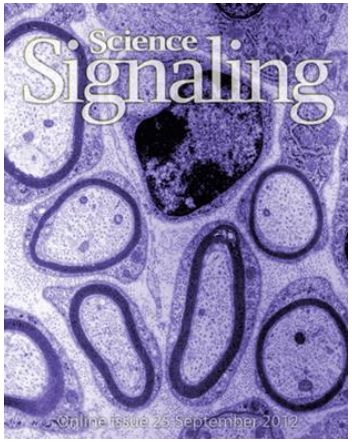
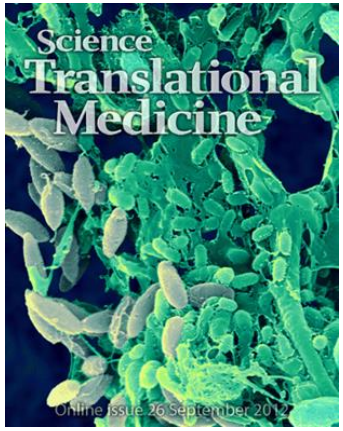
Science系列期刊



1880



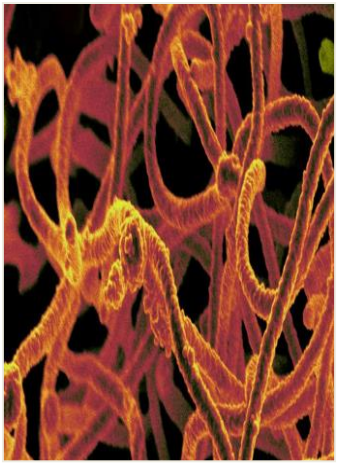
1999, 2008



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63.741

合肥工业大学价格说明

2020 年 DRAA 基于 FTE 的订阅费

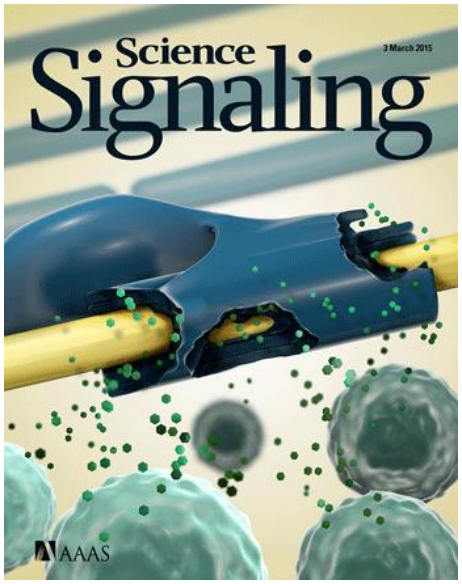
Tier	FTE	SOL	SIG	STM	IMM	ROB
Tier 1	0-999	$3,398	$2,960	$2,748	$2,383	$2,144
Tier 2	1000-2999	$5,872	$3,075	$3,171	$2,724	$2,450
Tier 3	3000-9999	$9,431	$3,322	$3,661	$3,065	$2,757
Tier 4	10000-24999	$12,118	$3,795	$4,028	$3,405	$3,064
Tier 5	25000-39999	$14,811	$4,364	$4,633	$3,746	$3,369
Tier 6	40000-49999	$17,941	$5,019	$5,329	$4,121	$3,706
Tier 7	50000-75000	$22,453	$5,772	$6,127	$4,533	$4,076
Tier 8	75000 以上	询价				

Tier	FTE
Tier 1	0-999
Tier 2	1000-2999
Tier 3	3000-9999
Tier 4	10000-24999
Tier 5	25000-39999
Tier 6	40000-49999
Tier 7	50000-74999
Tier 8	75000+

订购年份	2023 年	2024 年	2025 年
价格变化幅度	3.5%	3.5%	3.5%

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

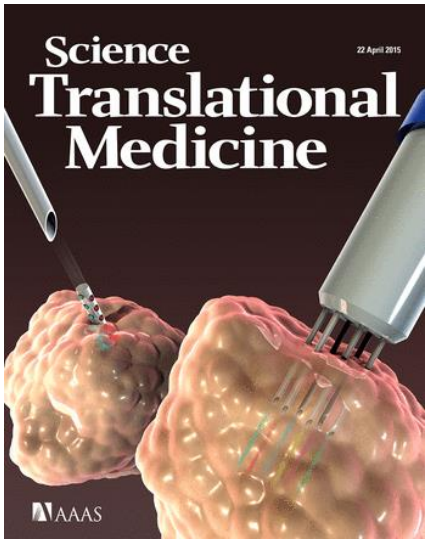
- **研究范围：**
  生物化学、生物信息学、细胞生物学、分子生物学、微生物学、系统生物学、免疫学、神经科学、药理学、生理学

- **期刊品质：**
  2021年影响因子9.571，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19.319。

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

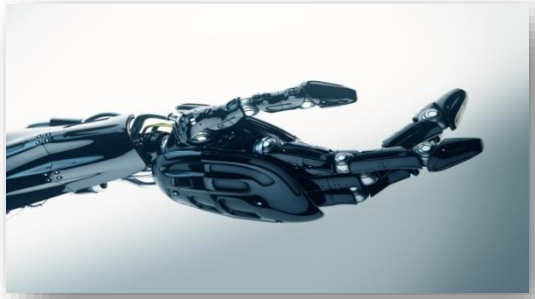
- **特点：**
  交叉学科；快速出版

- **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》

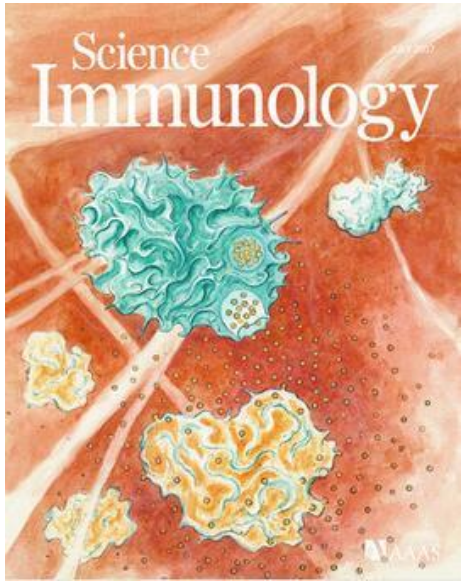


- 创刊于2016年
- **特点：**
  交叉学科，内容涵盖广泛
- **研究范围：**
  基础科学，计算机科学，工程，医学，既包含了机器人学的传统法则，也包含很多新兴的发展动态和趋势，例如先进材料和仿生设计，涉及微米/纳米机器人，陆地/海底机器人，人工智能，机器人生物材料等
- **期刊品质：**
  涵盖机器人学的传统学科，以及先进材料和仿生设计等新兴趋势
  2021年影响因子为27.541

Science Robotics AAAS

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。

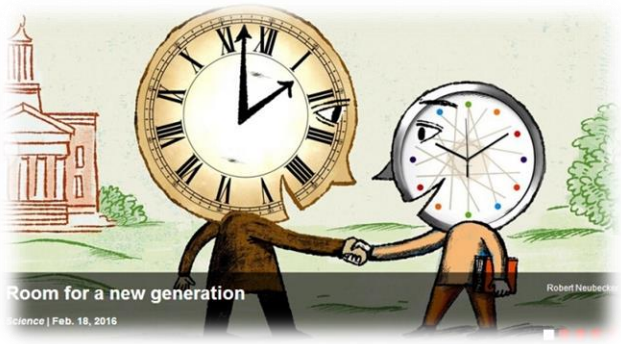
- **期刊品质：**
  2021年影响因子为30.630，在免疫学中排名第七

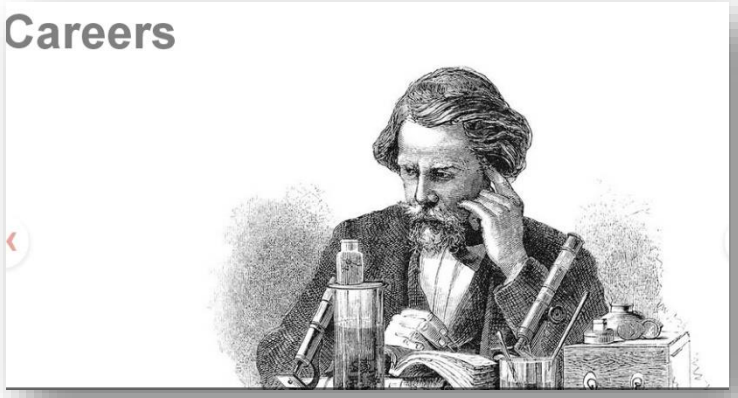
目录

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。

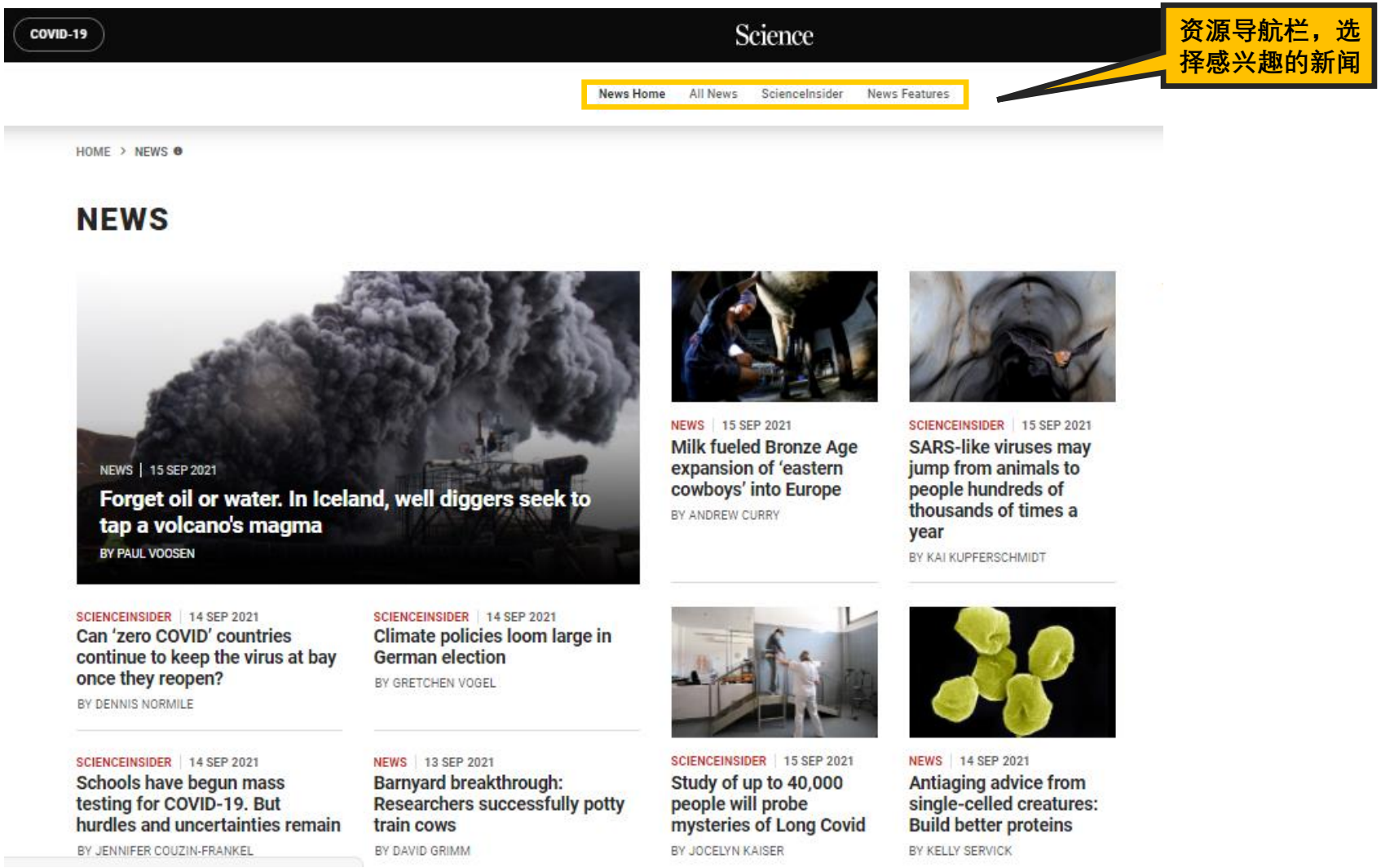
- ***Science* Careers**
  - 为科学家们通过网络谋职及寻找各种基金支助项目、科研合作项目提供信息；提供与之相关的文献和议题，并设讨论区供科学家们交流求职经验。





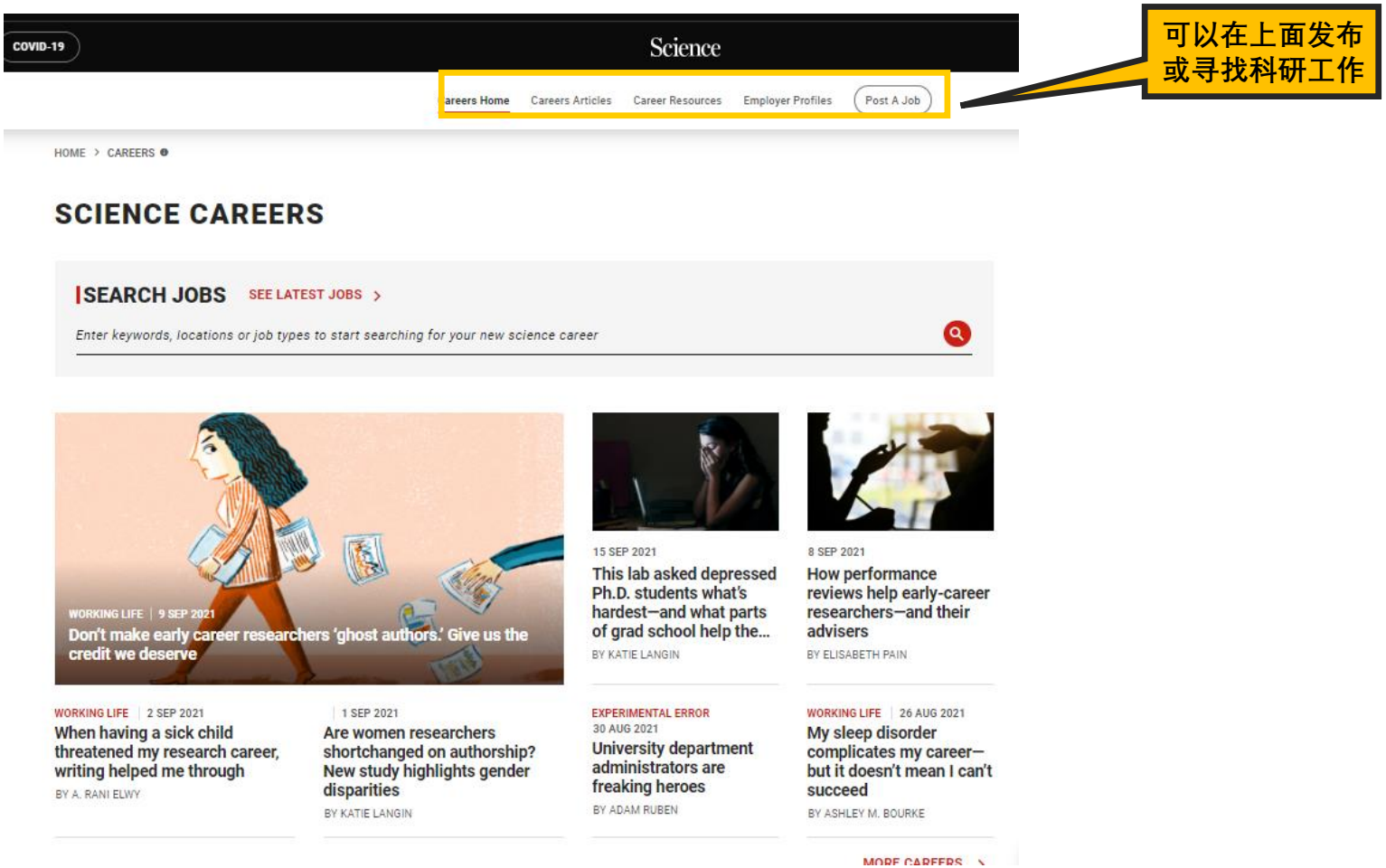
Science数据库其它资源介绍

- ***Science* News**



Science数据库其它资源介绍

- ***Science* Careers**



Science数据库其它资源介绍

- ***Collection***

COVID-19 Science

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按照主题分类的文章合集

COLLECTIONS

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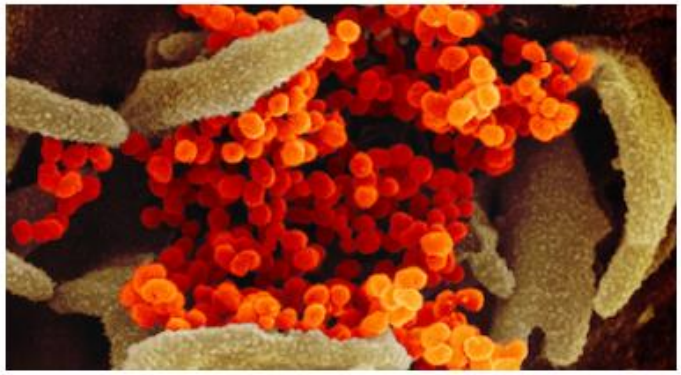


Coronavirus

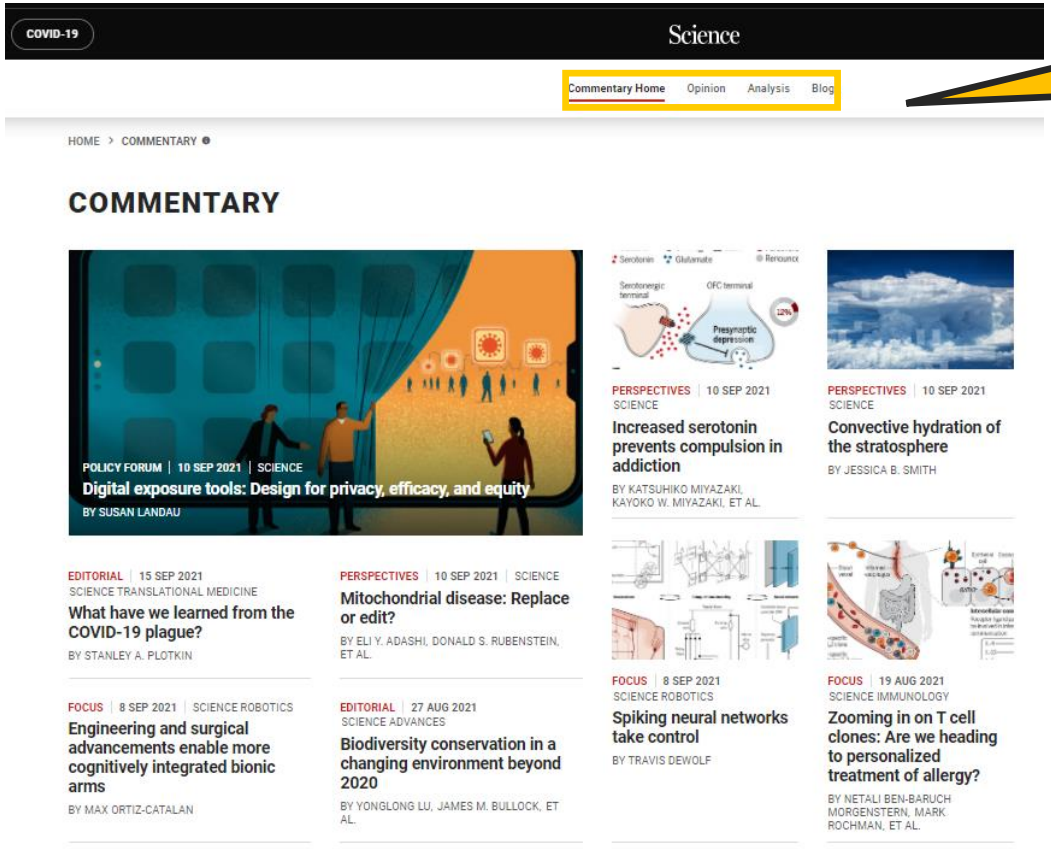
The *Science* journals are striving to provide the best and most timely research, analysis, and news coverage of COVID-19 and the coronavirus that causes it. All content is free to access.

Biodiversity Conservation in a Changing Environment Beyond 2020

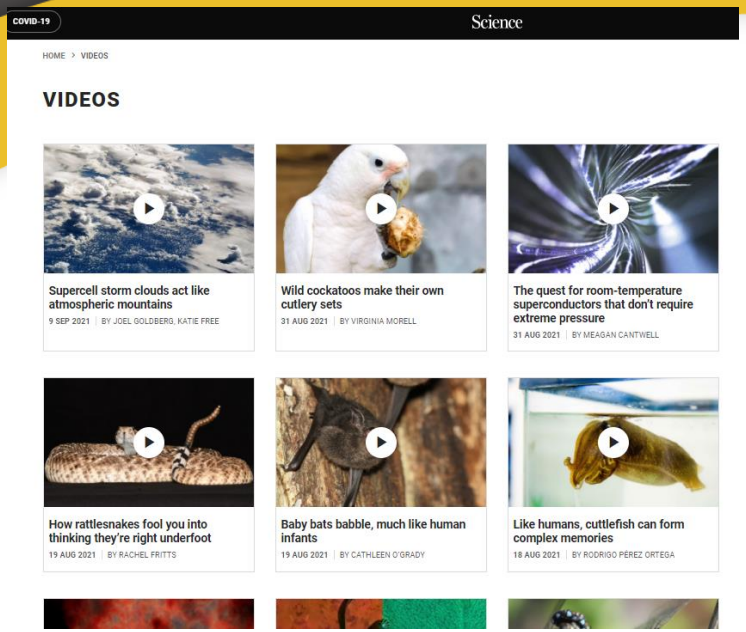
In this special collection, we bring together a group of leading conservation related scientists from the different parts of the world to identify grand challenges for biodiversity conservation, conflicts and trade-offs between conservation and utilization, and strategies and policies for sustainable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

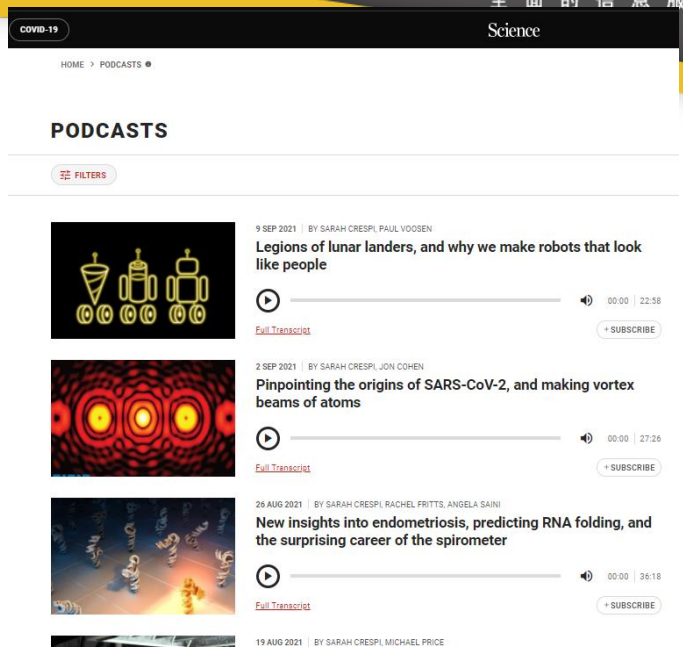
Science数据库其它资源介绍

- ***Commentary***

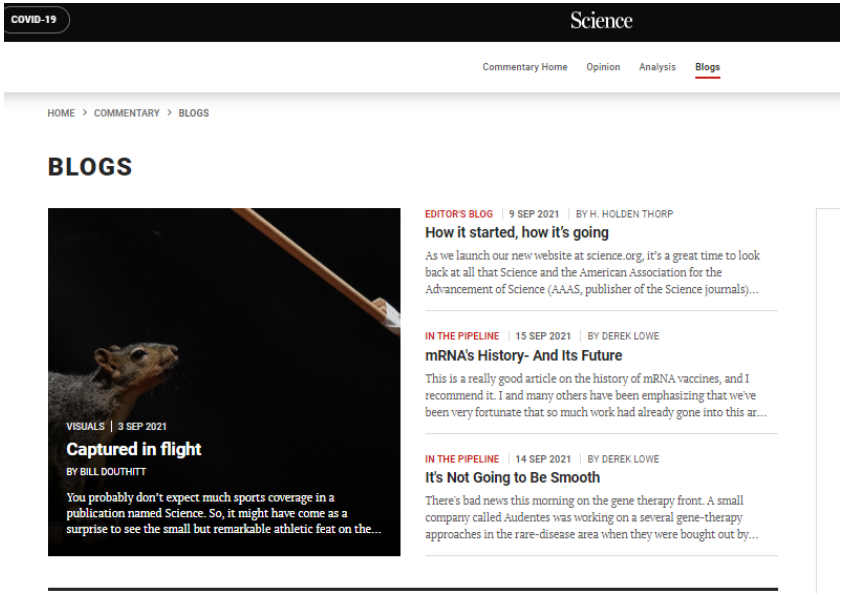


按观点，分析和博客分类的评论文章





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



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Science

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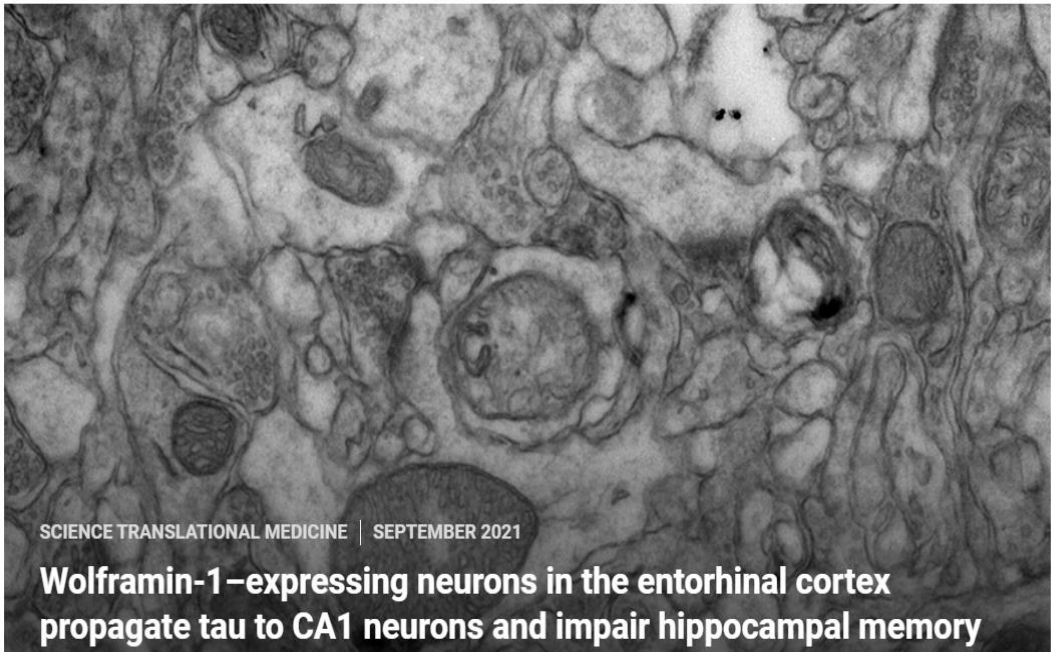
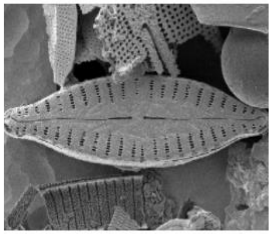


SCIENCE TRANSLATIONAL MEDICINE | SEPTEMBER 2021

Wolframin-1–expressing neurons in the entorhinal cortex propagate tau to CA1 neurons and impair hippocampal memory



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.

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15 SEP 2021
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15 SEP 2021
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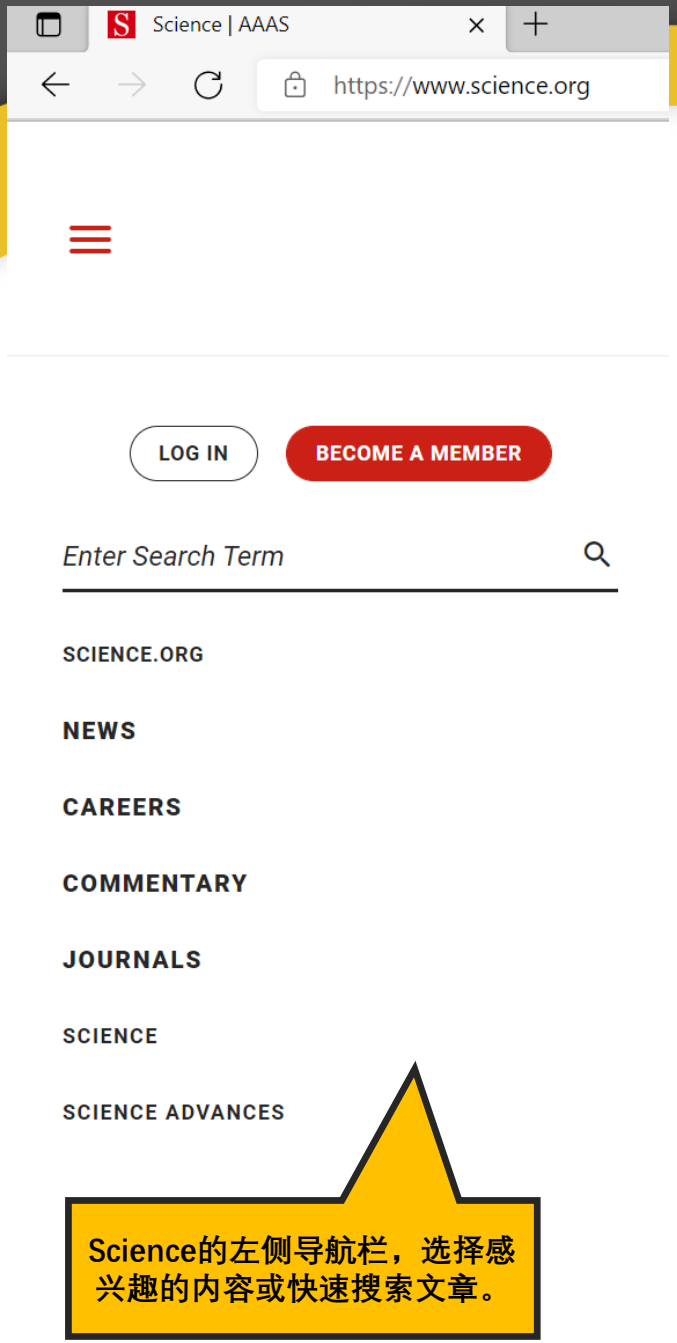

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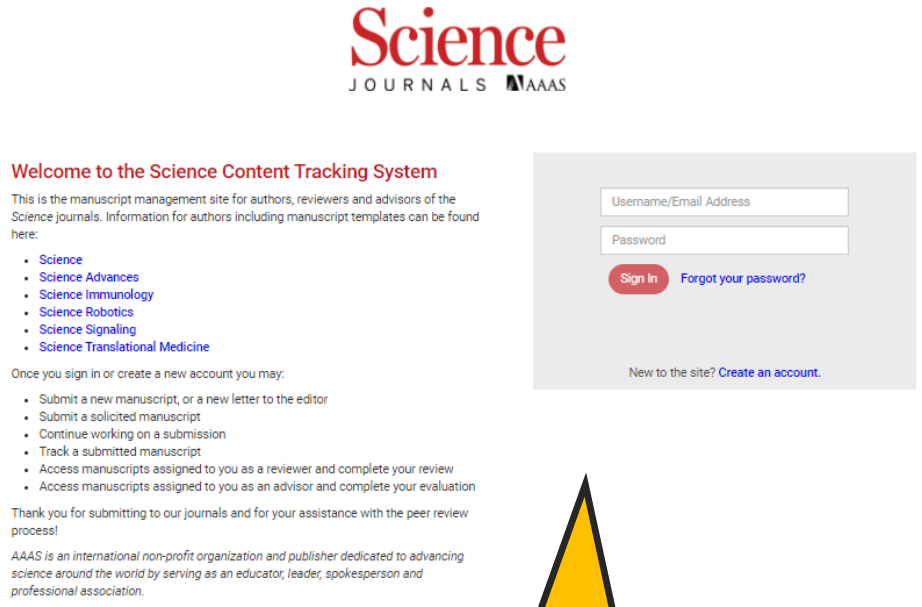

Science管理稿件的网站，进入之后可以投稿和稿件的管理

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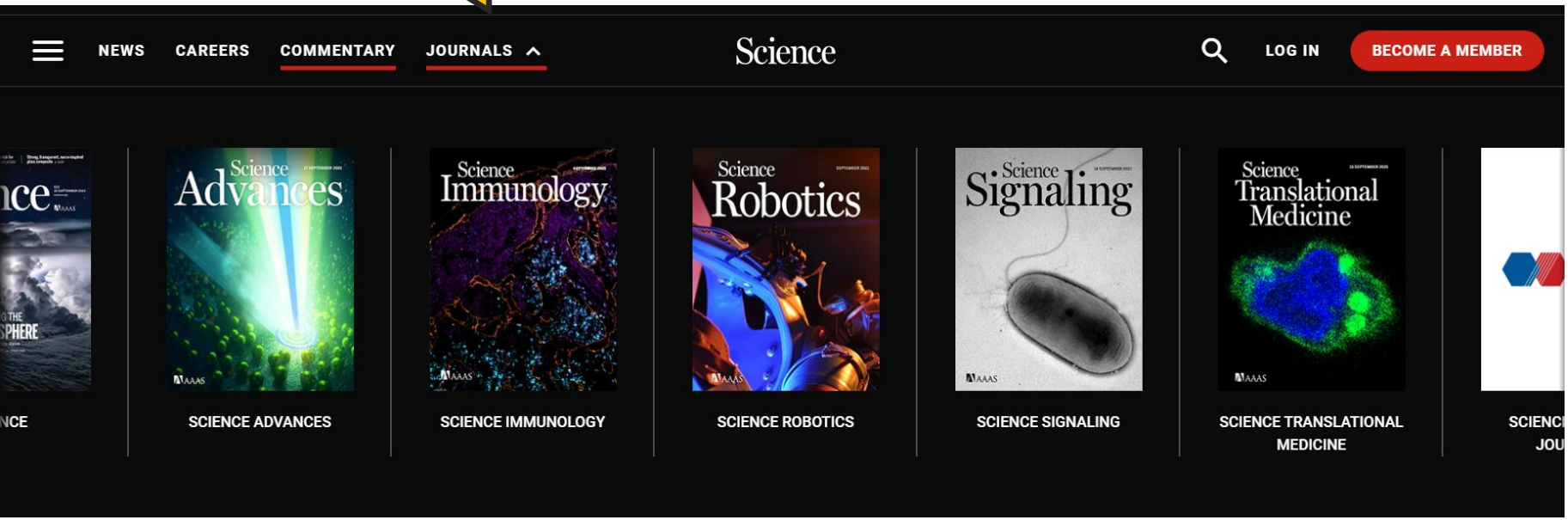

首次发布的文章，在正式期刊发布前在线发布的文章，后期会略作修改

当前期刊

回溯

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.

文章标题，点开后即可阅读全文

14 SEP 2021

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

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ARCHIVE

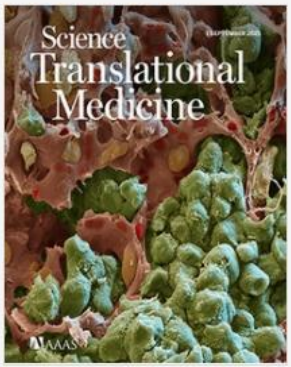
2000s 2010s **2020s**

2020 **2021**

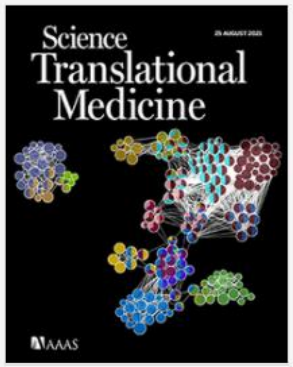
2021

15 SEPTEMBER
Volume 13 | Issue 611

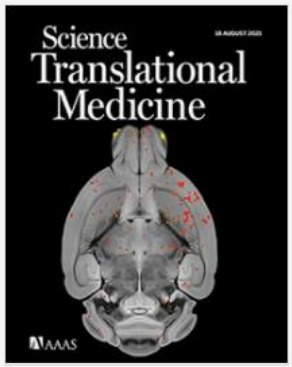
8 SEPTEMBER
Volume 13 | Issue 610



1 SEPTEMBER
Volume 13 | Issue 609



25 AUGUST
Volume 13 | Issue 608



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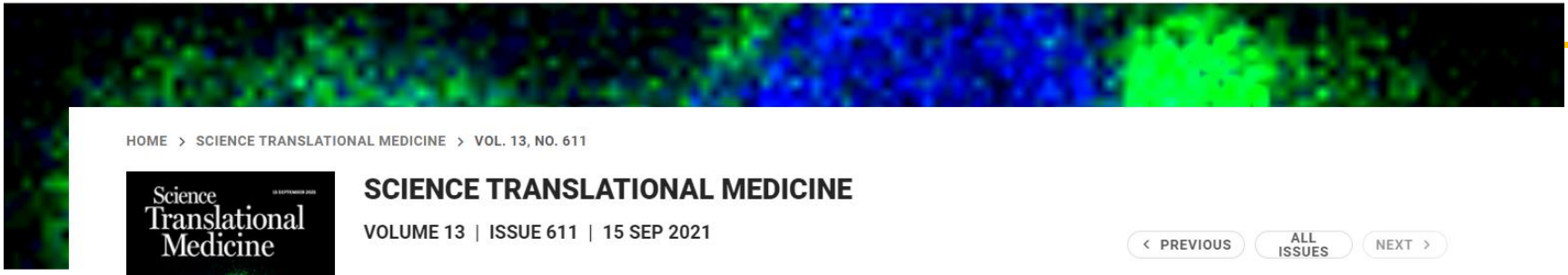
的文章，点击链接直接阅读



SCIENCE TRANSLATIONAL MEDICINE

VOLUME 13 | ISSUE 611 | 15 SEP 2021

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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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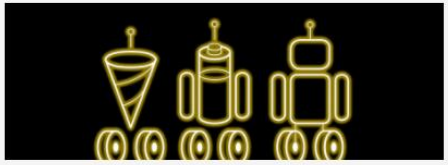
EDITORIAL

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.

THIS WEEK'S PODCAST



9 SEP 2021 | BY SARAH CRESPI, PAUL VOOSEN

RESEARCH ARTICLE | CANCER

文献类型

分享

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

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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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Acknowledgments

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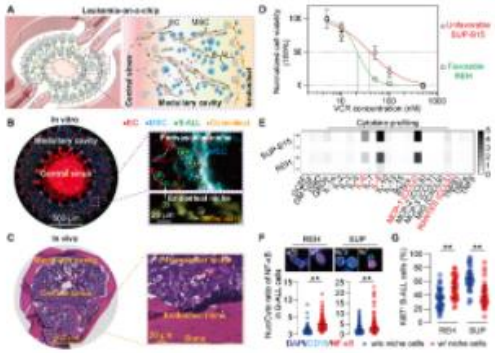

Fig. 1 Modeling the leukemic BM niche in a leukemia-on-a-chip platform. (**A**) Schematic demonstrating the design of leukemia-on-a-chip that consists of three functional regions. (**B**) Whole scan of the resultant leukemic BM niche system, where the enlarged area shows the colocalization of murine 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*$^+$ REH and *Ph*$^+$ 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$^+$ 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,

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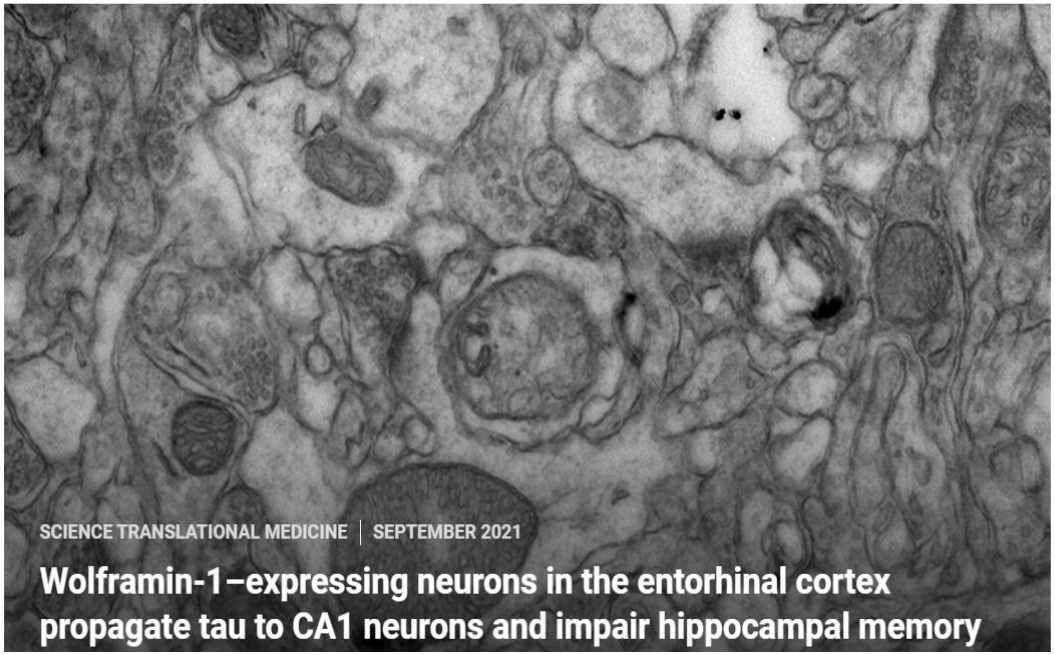

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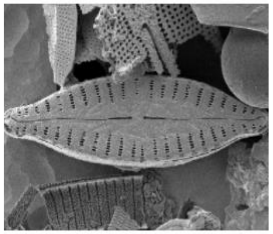
Wolframin-1–expressing neurons in the entorhinal cortex propagate tau to CA1 neurons and impair hippocampal memory



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

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

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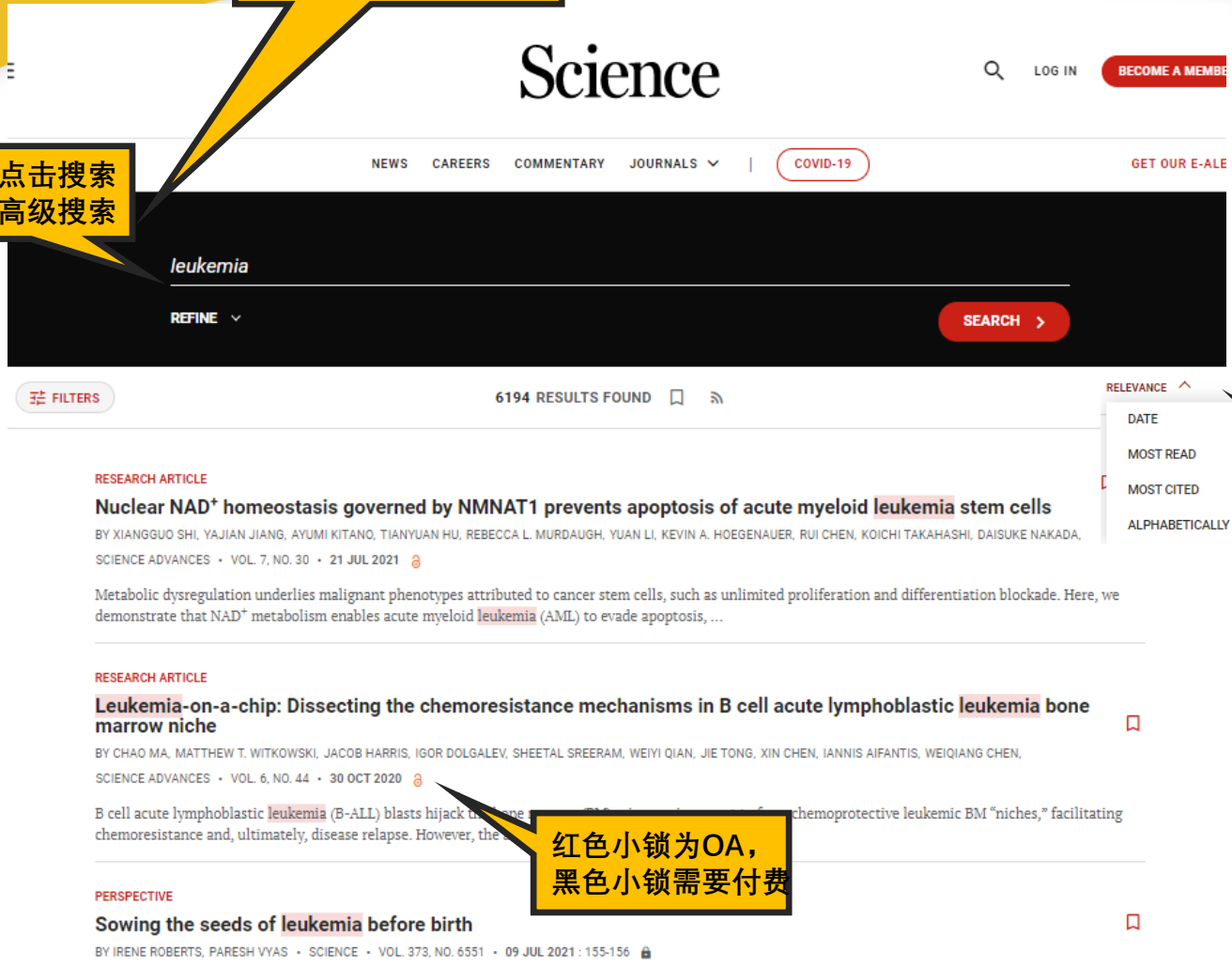

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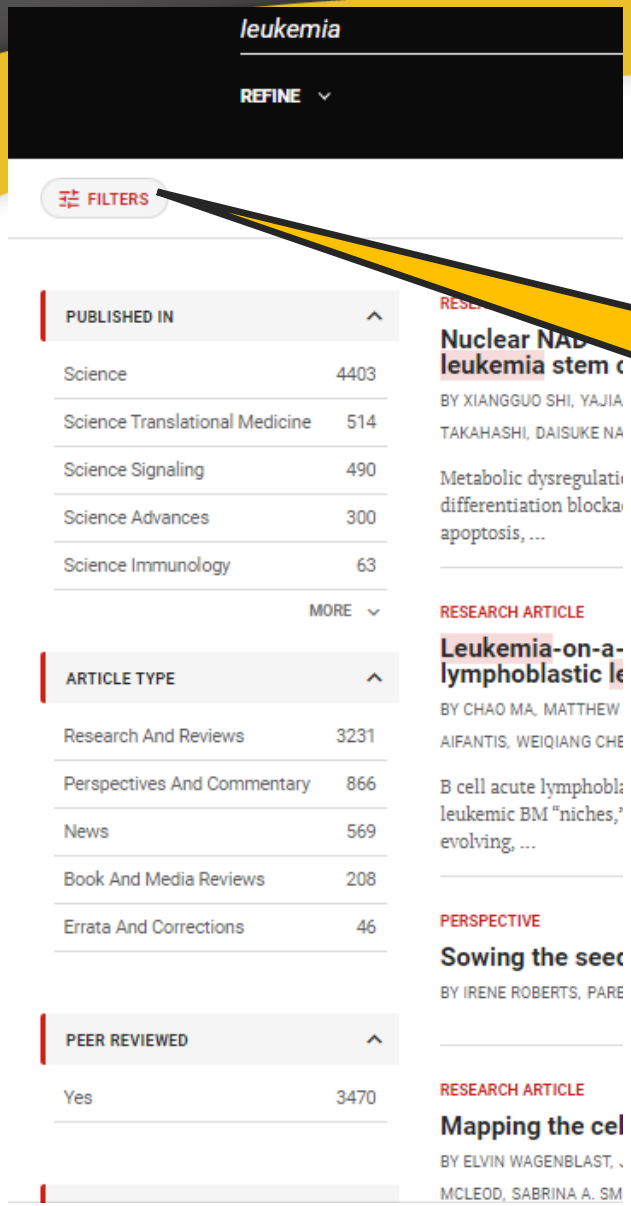

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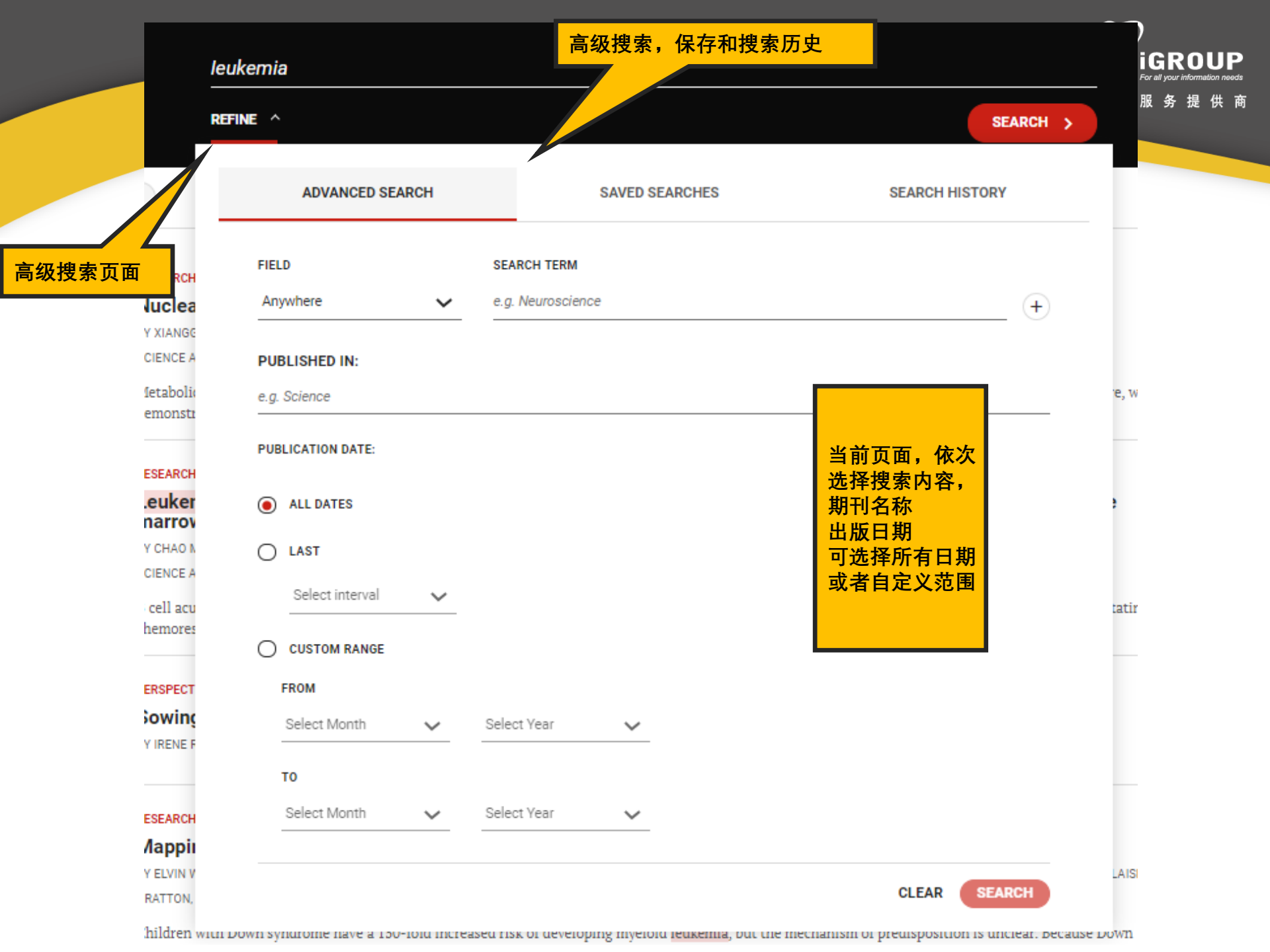
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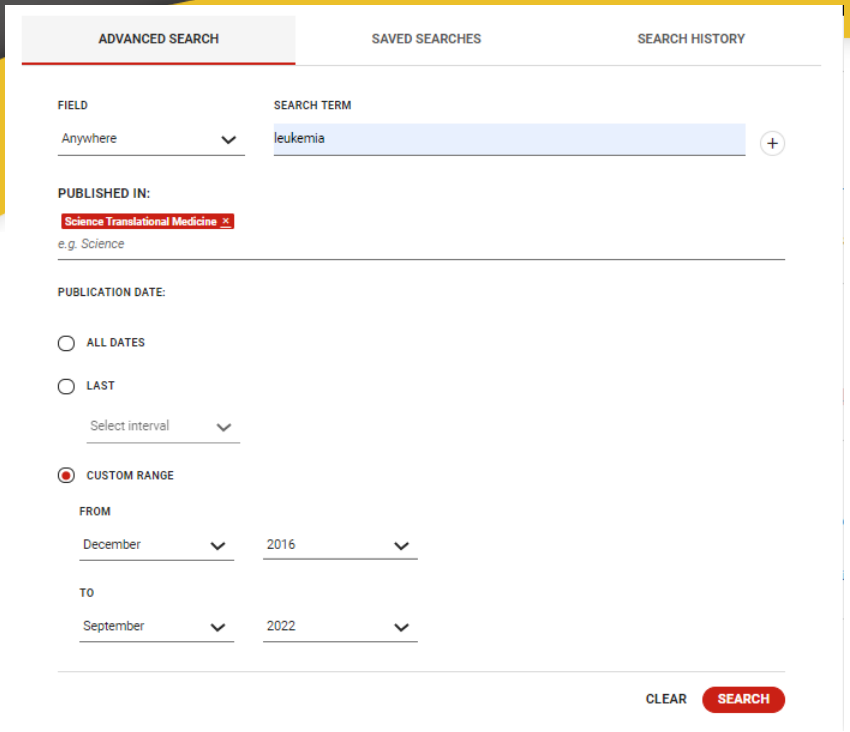

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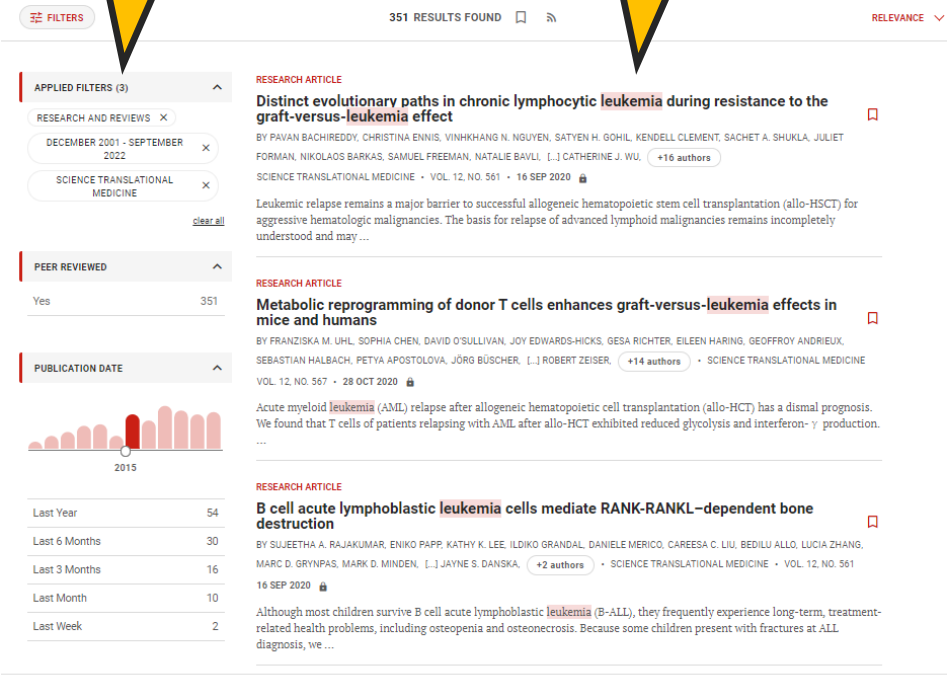

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REPORT | SYNTHETIC BIOLOGY

Cell-free chemoenzymatic starch synthesis from carbon dioxide

TAO CAI, HONGBING SUN, JING QIAO, LEILEI ZHU, FAN ZHANG, JIE ZHANG, ZIJING TANG, XINLEI WEI, JIANGANG YAN
YANHE MA +13 authors Authors Info & Affiliations

SCIENCE · 24 Sep 2021 · Vol 373, Issue 6562 · pp. 1523-1527 · DOI: 10.1126/science.abh4049

From carbon dioxide to starch: no plants required

Many plants turn glucose from photosynthesis into polymers that form insoluble starch granules ideal for long-term energy storage in roots and seeds. Cai *et al.* developed a hybrid system in which carbon dioxide is reduced to methanol by an inorganic catalyst and then converted by enzymes first to three and six carbon sugar units and then to polymeric starch. This artificial starch anabolic pathway relies on engineered recombinant enzymes from many different source organisms and can be tuned to produce amylose or amylopectin at excellent rates and efficiencies relative to other synthetic carbon fixation systems—and, depending on the metric used, even to field crops. —MAF

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例：在搜索栏中搜索Viperin，即可看到当前安徽农林正在研究的viperin有关内容的文章，我们可以选择自己感兴趣的进行阅读。

RESEARCH ARTICLE

Viperin catalyzes methionine oxidation to promote protein expression and function of helicases

BY LEI BAI, JIAZHEN DONG, ZHENQIU LIU, YOULIANG RAO, PINGHUI FENG, KE LAN • SCIENCE ADVANCES • VOL. 5, NO. 8 • **28 AUG 2019**

Helicases play pivotal roles in fundamental biological processes, and posttranslational modifications regulate the localization, function, and stability of helicases. Here, we report that methionine oxidation of representative helicases, including DNA and ...

REPORT

Human Cytomegalovirus Directly Induces the Antiviral Protein Viperin to Enhance Infectivity

BY JUN-YOUNG SEO, RAKINA YANEVA, ELLA R. HINSON, PETER CRESSWELL • SCIENCE • VOL. 332, NO. 6033 • **27 MAY 2011** : 1093-1097

Viperin is an interferon-inducible protein that is directly induced in cells by human cytomegalovirus (HCMV) infection. Why HCMV would induce viperin, which has antiviral activity, is unknown. We show that HCMV-induced viperin disrupts cellular metabolism ...

REPORT

Human Cytomegalovirus Directly Induces the Antiviral Protein Viperin to Enhance Infectivity

JUN-YOUNG SEO, RAKINA YANEVA, ELLA R. HINSON, AND , PETER CRESSWELL Authors Info & Affiliations

SCIENCE • 27 May 2011 • Vol 332, Issue 6033 • pp. 1093-1097 • DOI: 10.1126/science.1202007

Abstract

Viperin is an interferon-inducible protein that is directly induced in cells by human cytomegalovirus (HCMV) infection. Why HCMV would induce viperin, which has antiviral activity, is unknown. We show that HCMV-induced viperin disrupts cellular metabolism to enhance the infectious process. Viperin interaction with the viral protein vMIA resulted in viperin relocalization from the endoplasmic reticulum to the mitochondria. There, viperin interacted with the mitochondrial trifunctional protein that mediates β-oxidation of fatty acids to generate adenosine triphosphate (ATP). This interaction with viperin, but not with a mutant lacking the viperin iron-sulfur cluster–binding motif, reduced cellular ATP generation, which resulted in actin cytoskeleton disruption and enhancement of infection. This function of viperin, which was previously attributed to vMIA, suggests that HCMV has coopted viperin to facilitate the infectious process.

例：该文章介绍了HCMV病毒如何诱发Viperin产生，Viperin与该病毒作用的机理，以及最后在某个阶段增强该病毒的传染性的结论。该文章首次提出了Viperin的多面性。

试一试

与导师讨论研究的主题，并尝试在**science**上搜索该领域前沿发展的信息。

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RESEARCH ARTICLE | CORONAVIRUS

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, CESAR PIEDRA-MORA, TOCHI ANIOKE, AIQUAN CHANG, [...] DAN H. BAROUCH +21 authors Authors Info & Affiliations

SCIENCE TRANSLATIONAL MEDICINE · 7 Sep 2021 · First Release · DOI: 10.1126/scitranslmed.abj3789

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Abstract

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 (α variant) and B.1.351 (β 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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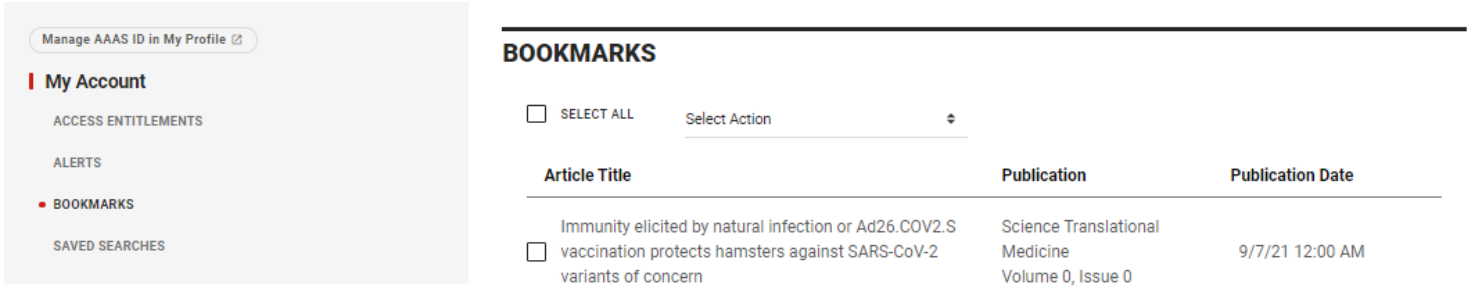

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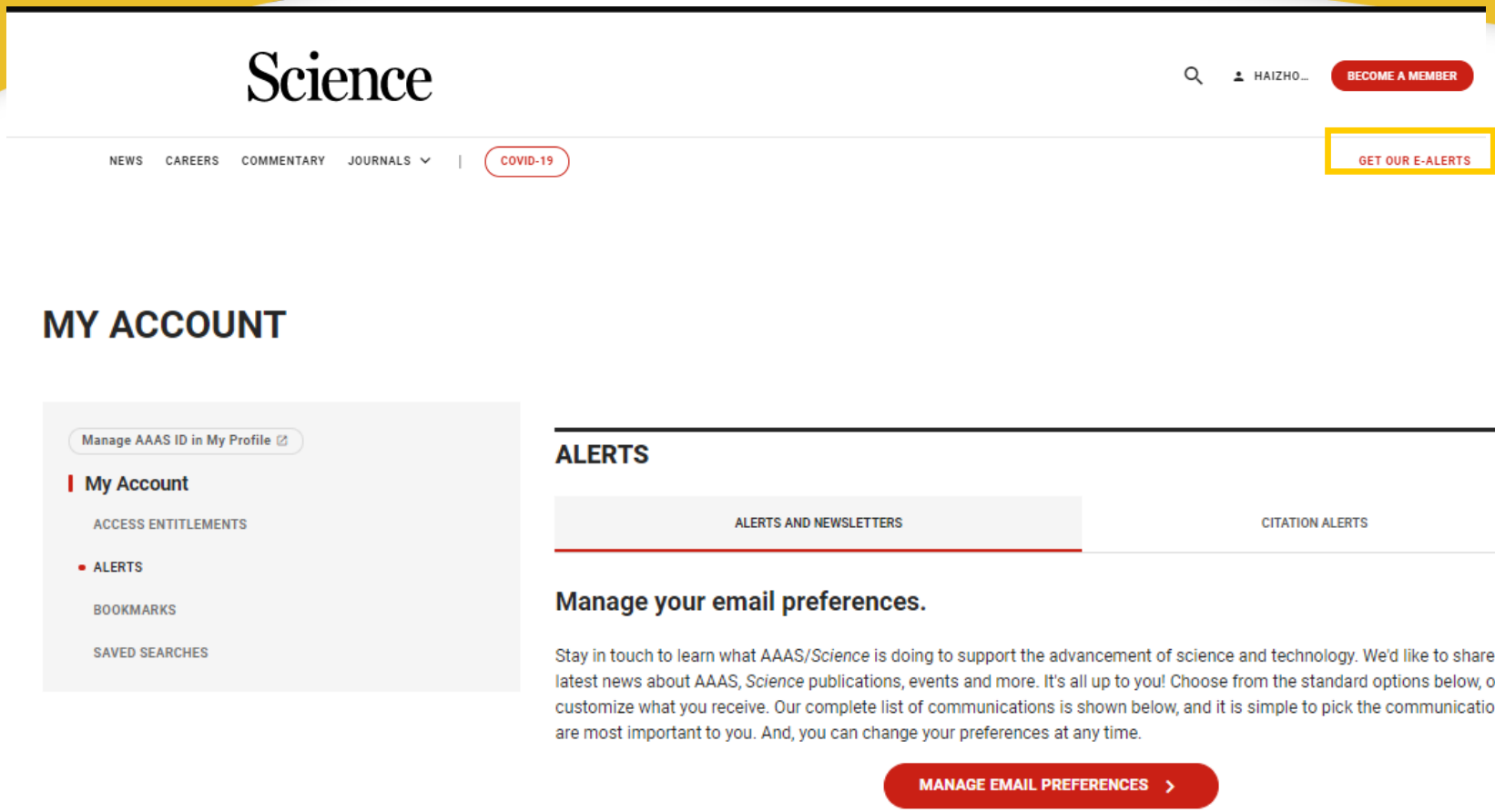

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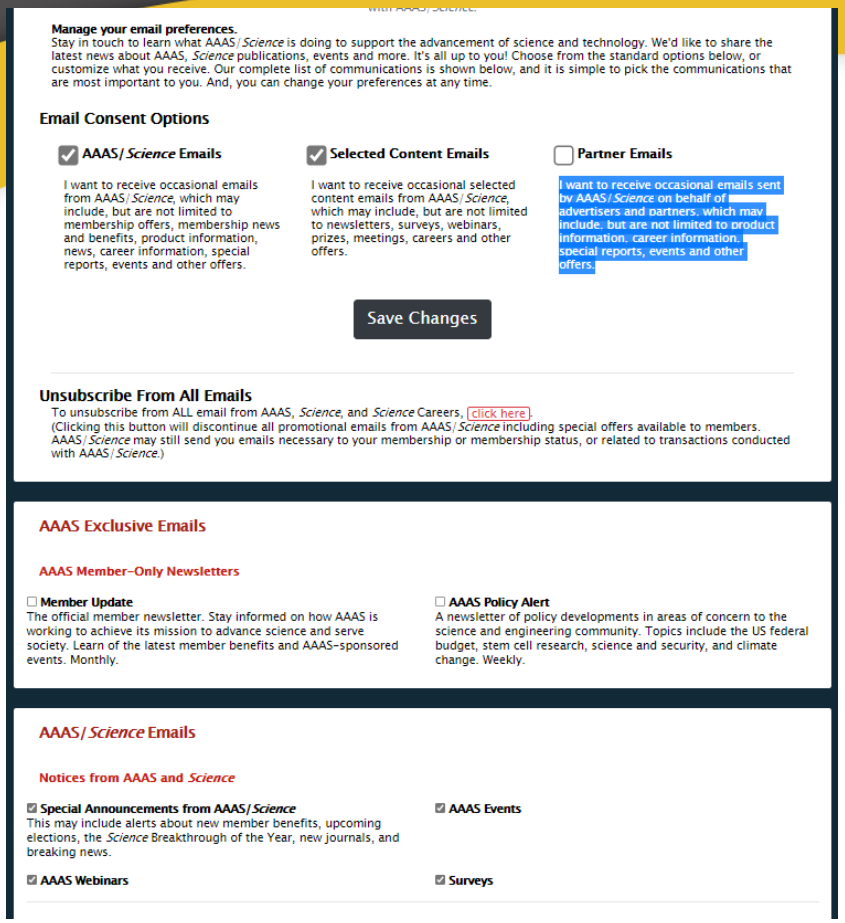

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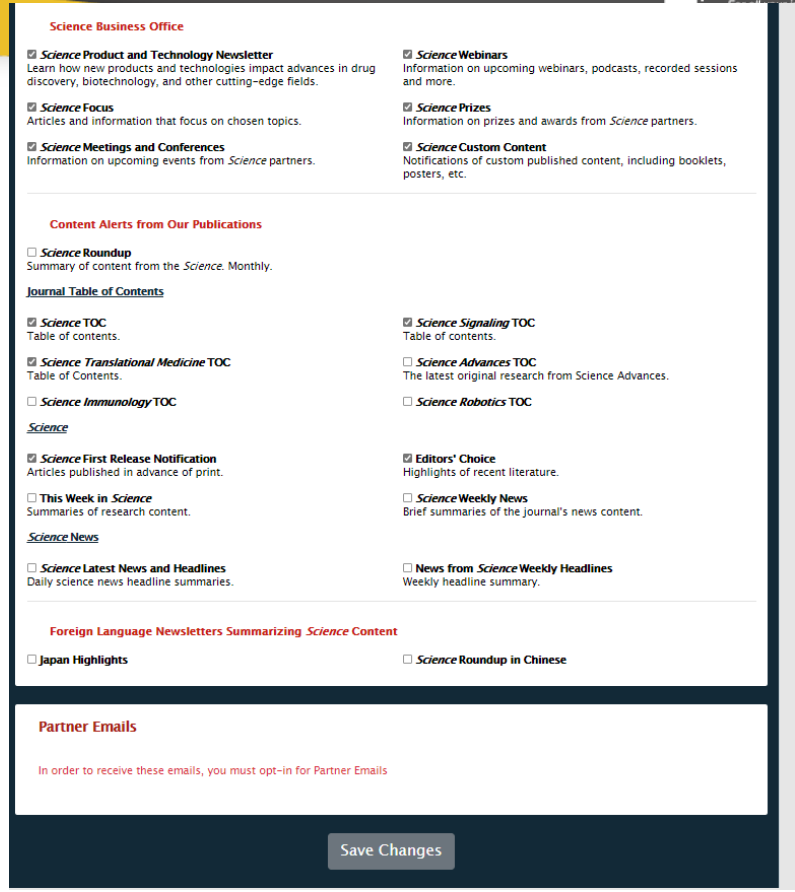

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