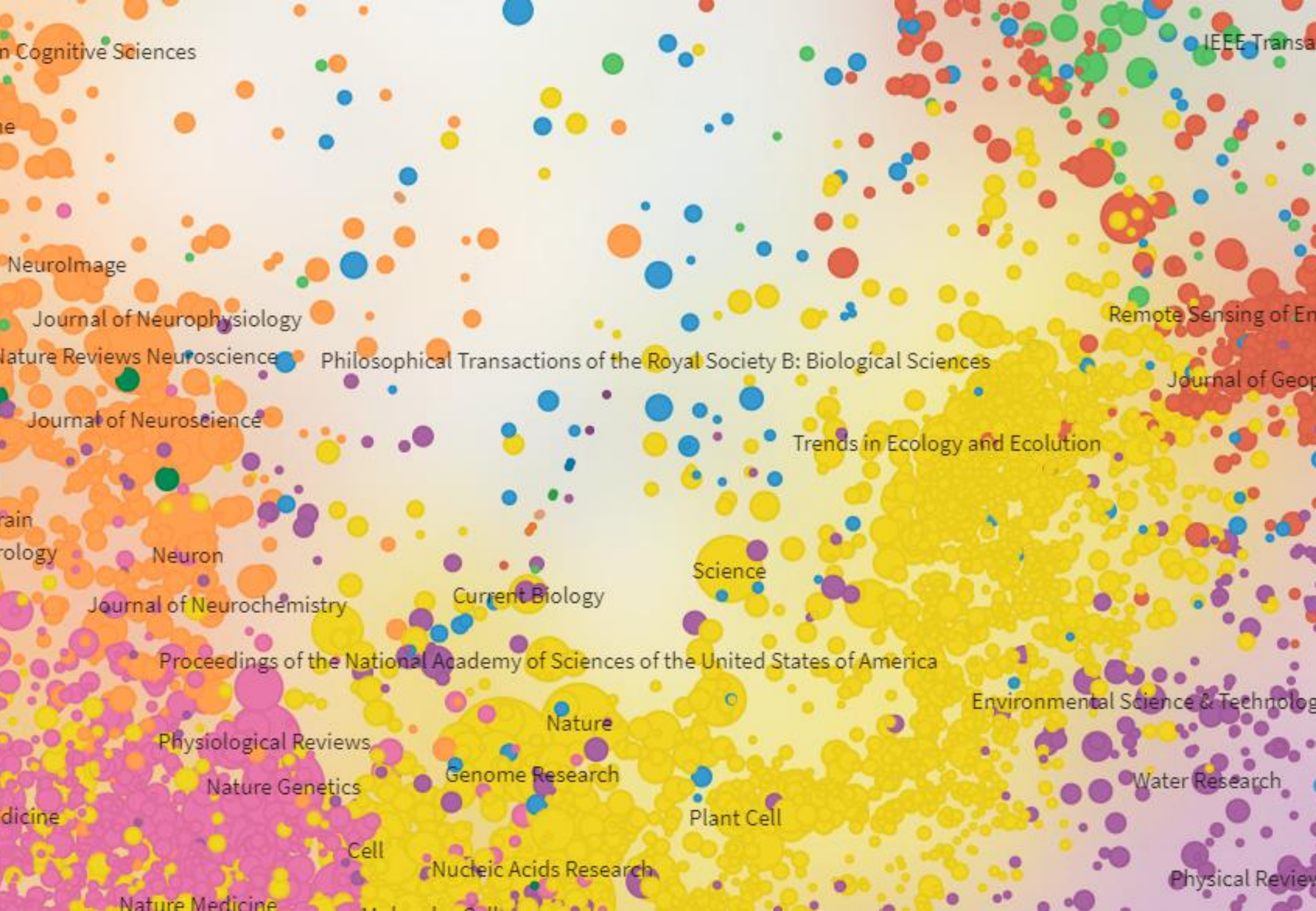


A close-up, monochromatic photograph of a scientist in a white lab coat looking through a microscope. The image is partially obscured by a white graphic element in the top right corner and a blue graphic element in the middle right. The scientist's face is in focus, with their eyes looking through the eyepieces of the microscope.

赋能科研175年

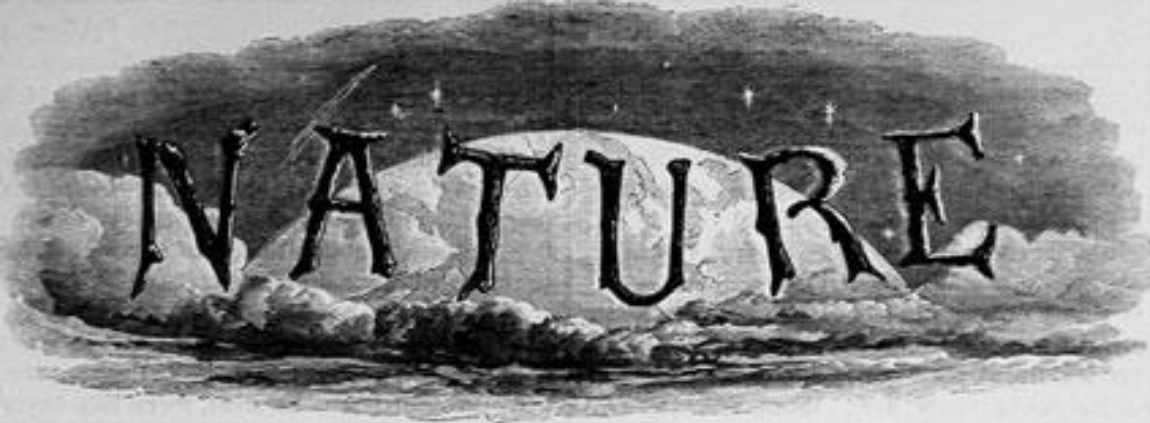
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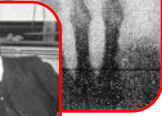
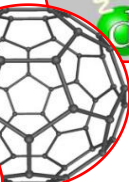
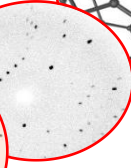
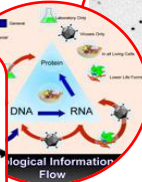
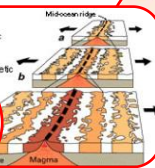
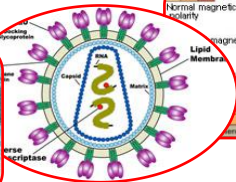
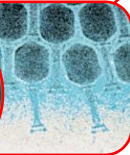
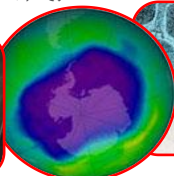


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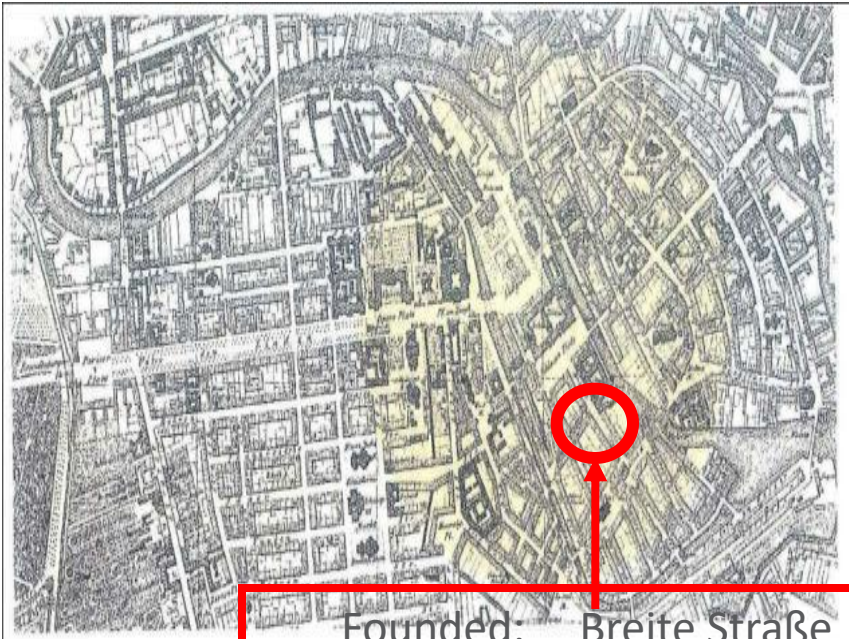
- 1880: 指纹用于刑侦技术
- 1896: 首次发现 X 射线
- 1903: 发现镭的放射性衰变
- 1925: 发现非洲类人猿——人类的起源
- 1927: 发现电子的波动性——电子显微镜的基石
- 1932: 破解原子由质子、中子和电子组成——原子能时代的开端
- 1953: 发现 DNA 的双螺旋结构——开启生物学的黄金时代
- 1958: 首次确定蛋白质结构——蛋白质组学
- 1961: 破解 DNA 到蛋白质的编码过程
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- 2001: 人类基因组计划
- 2006: 破解安提基特拉机械装置
- 2012: ENCODE 计划



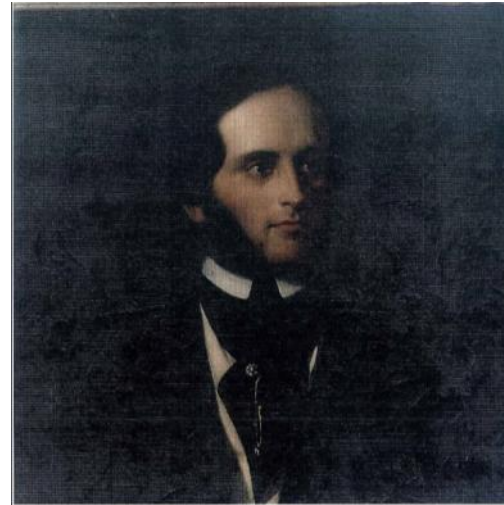
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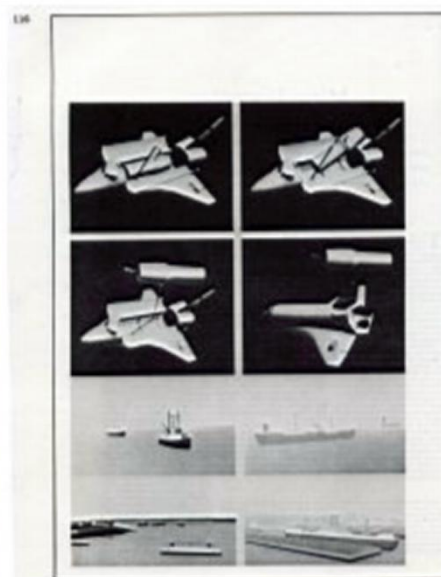
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A Decade of Research @ Xerox PARC
reprint of
Sept 1977 Scientific American Article on Xerox Alto
"Microelectronics and the Personal Computer"
pp. 230-244, by Alan Kay

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In an uncertain world, more governments are asking universities to help develop weapons. That's a threat to the culture and conscience of researchers.

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Checklists work to improve science

Nature authors say a reproducibility checklist is a step in the right direction, but more needs to be done.

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A new set of ethics principles should help researchers and funders do justice to the interests of those involved with Africa's genomics research.

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Science must rise up to support people like me

Institutions could do more to support researchers who have disabilities, says Aaron Schaal.

Aaron Schaal

Science must rise up to support people like me



Institutions could do more to support researchers who have disabilities, says Aaron Schaal.

Aaron Schaal 



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Gentle 'slow slip' earthquakes belie hidden danger

Fluid build-up after a slow quake raises the risk of massive rupture.

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Mice that hit the running wheel have brainier pups than sedentary rodents do.

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Early chromosomal disruption can set the stage for kidney cancer decades later.

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重点期刊推荐 – 《自然·生物技术》

<https://www.nature.com/nbt/>

生物技术和应用微生物学领域排名第一的研究型期刊，收录范围涵盖生物学、生物医学、农业及环境科学领域相关的商业、政治、伦理、法律和社会等方面的研究。

超分辨率成像

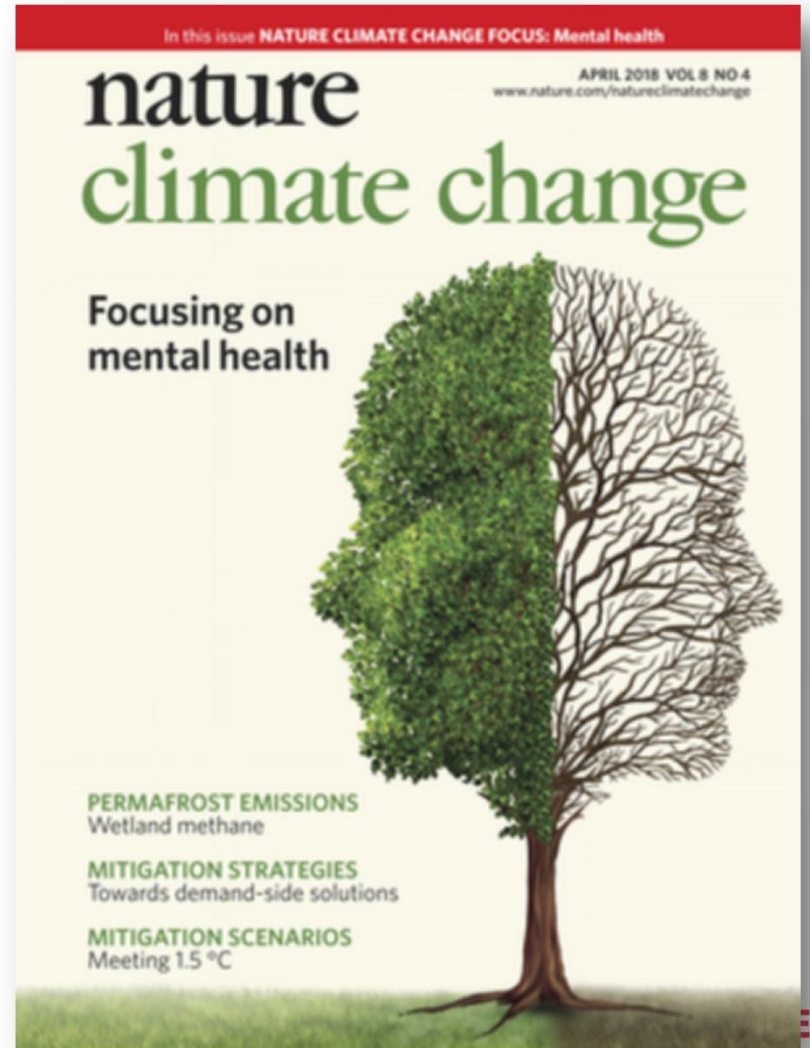


重点期刊推荐 — 《自然·气候变化》

<https://www.nature.com/nclimate/>

致力于发表有关全球气候变化成因、效应以及更大范围潜在影响的最前沿和最重要的高质量研究成果。

在“巴黎协定”中，各国致力于制定更加雄心勃勃的气候政策目标，旨在将全球变暖限制在 1.5°C 而不是比工业化前水平高出 2°C 。气候模型现在表明，实现 1.5°C 的目标将对北极海冰产生重大影响。

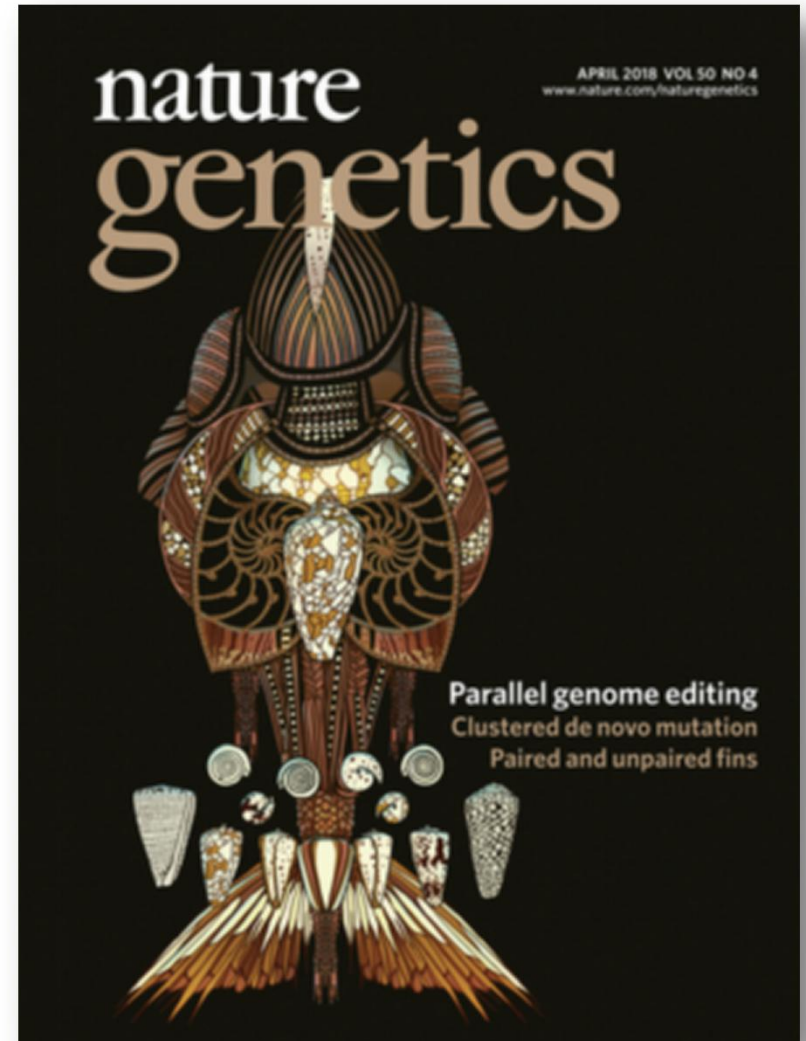


重点期刊推荐 — 《自然·遗传学》

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遗传学领域内排名第一的基础研究型期刊，发表遗传学领域内最高品质的研究论文。期刊收录范围涵盖人类基因及基因组、实验胚胎学、癌症、染色体生物学及基因技术。此外，本刊还发表该领域内的新资讯、新观点，报导发表在其他期刊上的重要研究亮点，专题概述与讨论遗传学发展的相关议题，主题涵盖范围甚广。

了解DNA序列变异的功能效应对于基础生物学，进化和医学遗传学的研究至关重要。然而，以高通量方式测量这些效应是一个重大挑战。一个有希望的途径是用CRISPR-Cas9系统进行精确编辑，该系统允许在与引导RNA（gRNA）的靶向序列相匹配的基因组位点处产生DNA双链断裂（DSB）。



重点期刊推荐 — 《自然·植物》

<https://www.nature.com/nplants/>

专注发表植物科学领域最前沿的基础和应用研究成果，涵盖植物学的各个方面：植物的进化，植物的生长发育、新陈代谢，植物与环境的相互关系及其对人类社会的重要意义。此外，本刊也将关注植物的遗传学、细胞生物学、生态学和进化过程，以及植物王国与人类的相互关系。

只要有必要，福利一直在政治上引起争议。现代工业化国家的福利使用各种机制，例如食物，服务或现金，为贫困公民提供援助。

虽然不同的社会对福利有不同的态度和态度，但在美国和英国，那些依赖这种“伸手乞讨”的人常常被认为不值得被救济。福利受益者经常被用作政治替罪羊，同时试图生存并使自己和家人摆脱贫困，在一些世界上最富有的国家，通常非常微薄的福利。



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基因表达的多层面控制需要调控机制在转录水平和转录后水平的紧密协调。在这里，我们通过全长mRNA测序研究了单个mRNA分子上的转录起始，剪接和聚腺苷酸化事件的相互依赖性。



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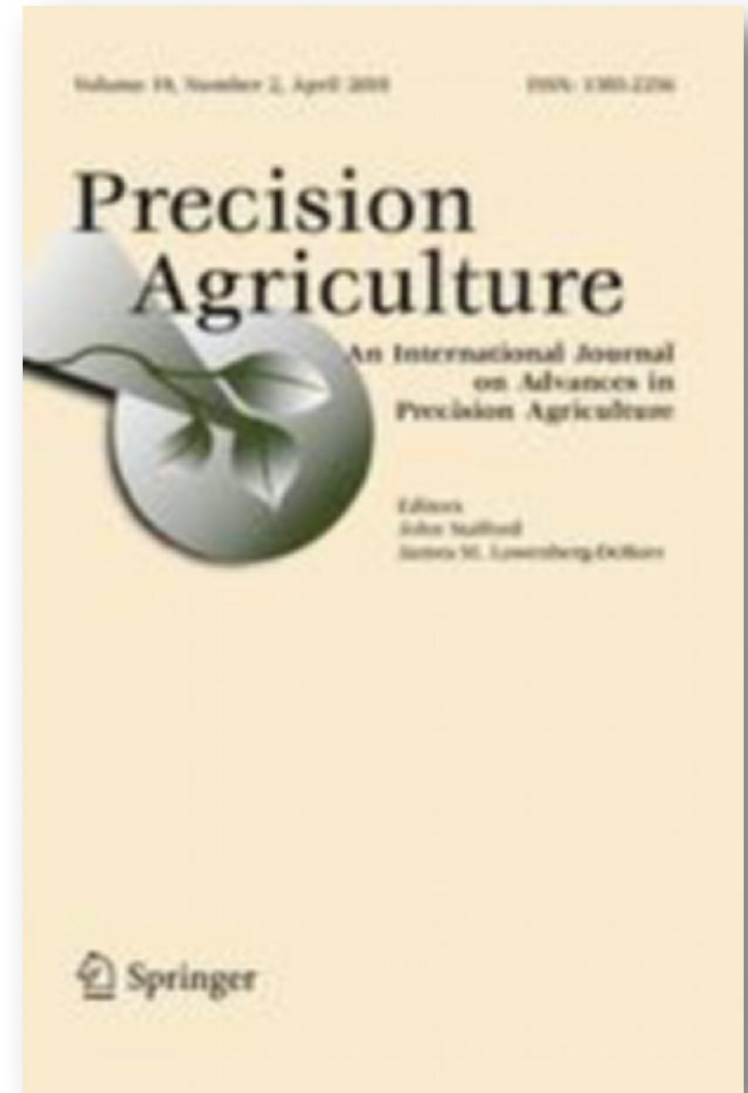
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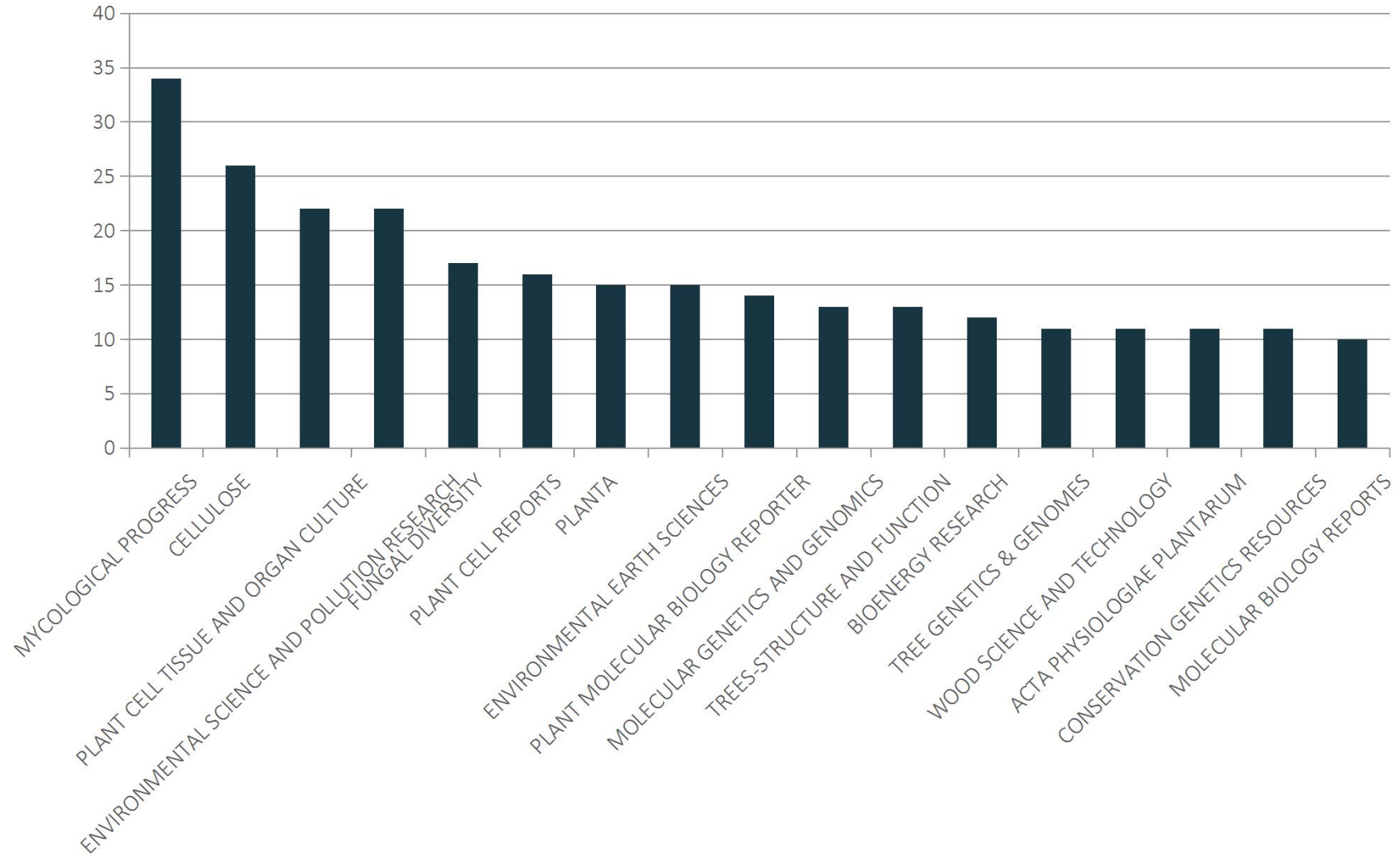
工程技术, 专注于传感器系统, 计算技术, 定位系统和用于特定场地应用的控制系统



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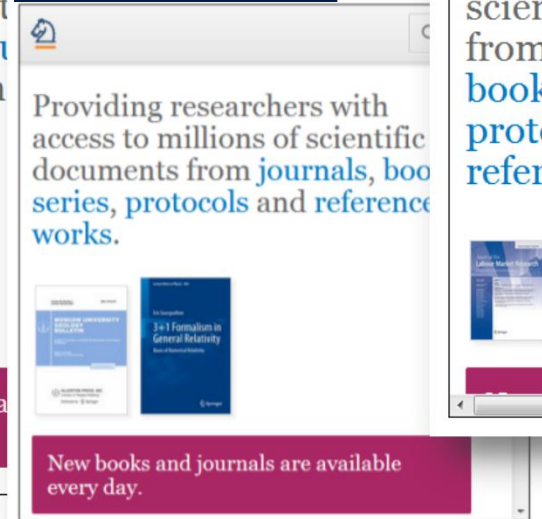
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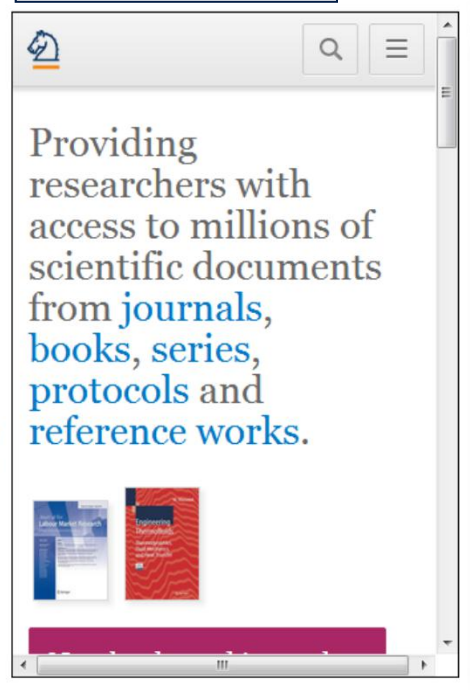
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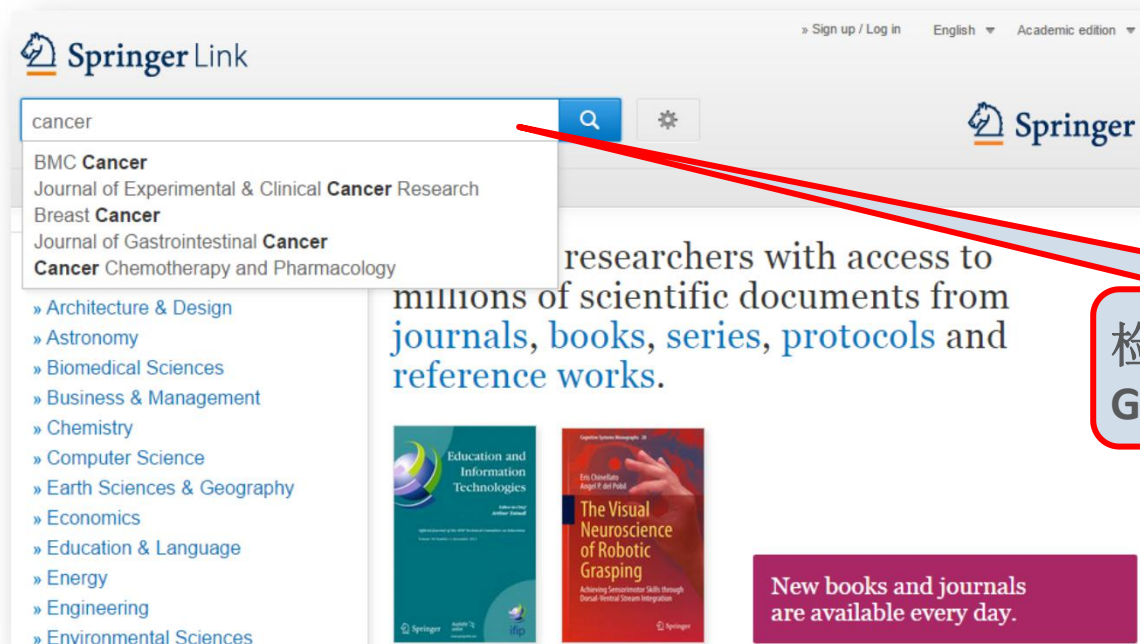
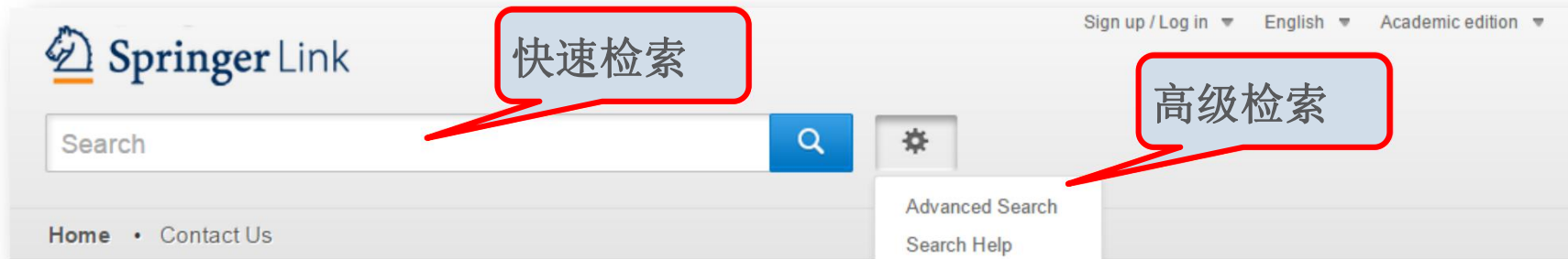
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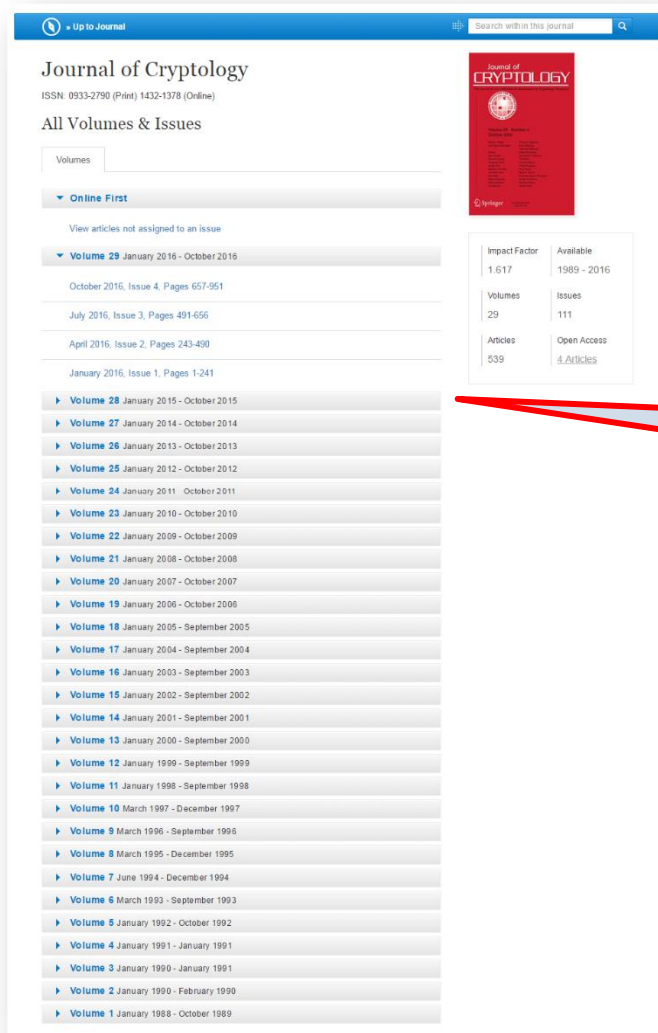
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New Second-Preimage Attacks on Hash Functions

Elena Andreeva, Charles Bouillaguet, Orr Dunkelman, Pierre-Alain Fouque, Jonathan Hoch, John Kelsey, Adi Shamir, Sébastien Zimmer

Article
First Online: 23 June 2015
DOI: 10.1007/s00145-015-9206-4

Cite this article as:
Andreeva, E., Bouillaguet, C., Dunkelman, O. et al. J Cryptol (2016) 29: 657. doi:10.1007/s00145-015-9206-4

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Abstract

In this work, we present several new generic second-preimage attacks on hash functions. Our first attack is based on the herding attack and applies to various Merkle–Damgård-based iterative hash functions. Compared to the previously known long-message second-preimage attacks, our attack offers more flexibility in choosing the second-preimage message at the cost of a small computational overhead. More concretely, our attack allows the adversary to replace only a few blocks in the original target message to obtain the second preimage. As a result, our new attack is applicable to constructions previously believed to be immune to such second-preimage attacks. Among others, these include the dithered hash proposal of Rivest, Shoup's UOWHF, and the ROX constructions. In addition, we also suggest several time-memory-data tradeoff attack variants, allowing for a faster online phase, and even finding second preimages for shorter messages. We further extend our attack to sequences stronger than the ones suggested in Rivest's proposal. To this end we introduce the *kite generator* as a new tool to attack any dithering sequence over a small alphabet. Additionally, we analyse the second-preimage security of the basic *tree hash* construction. Here we also propose several second-preimage attacks and their time-memory-data tradeoff variants. Finally, we show how both our new and the previous second-preimage attacks can be applied even more efficiently when multiple short messages, rather than a single long target message, are available.

Keywords

Cryptanalysis Hash function Dithering sequence Second-preimage attack Herding attack Kite Generator

Communicated by Antoine Joux.

A preliminary version of this paper appeared in [2].

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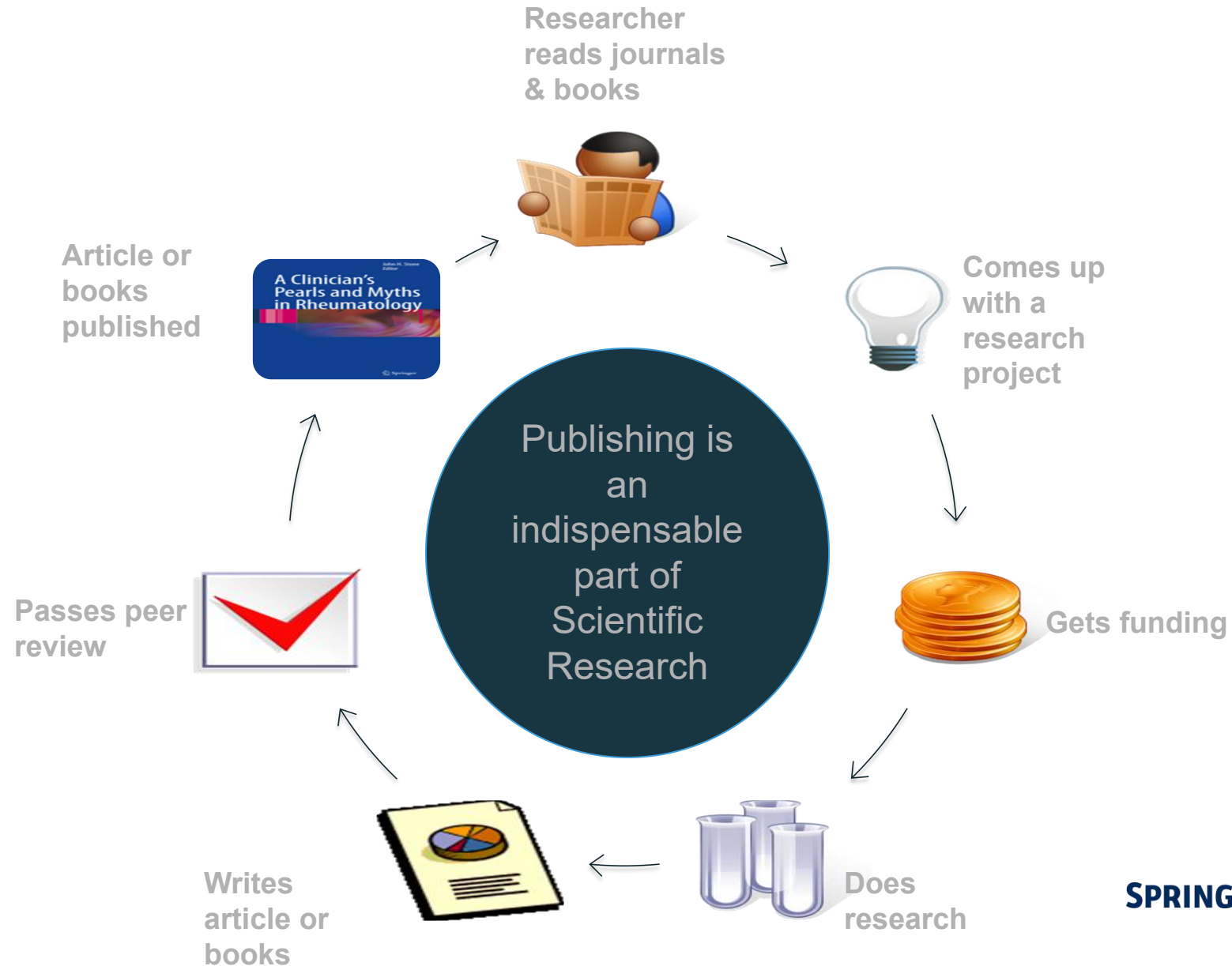
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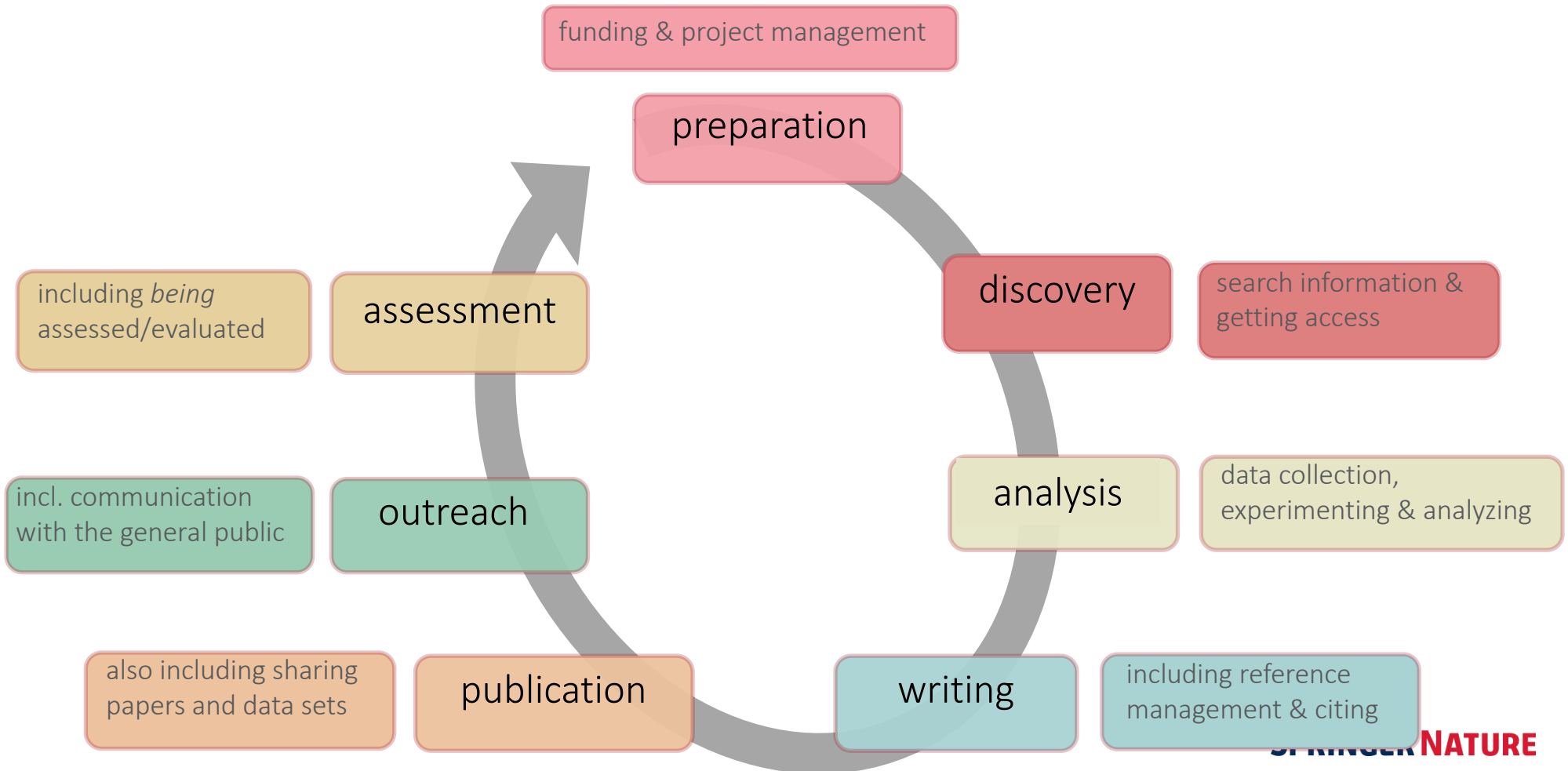
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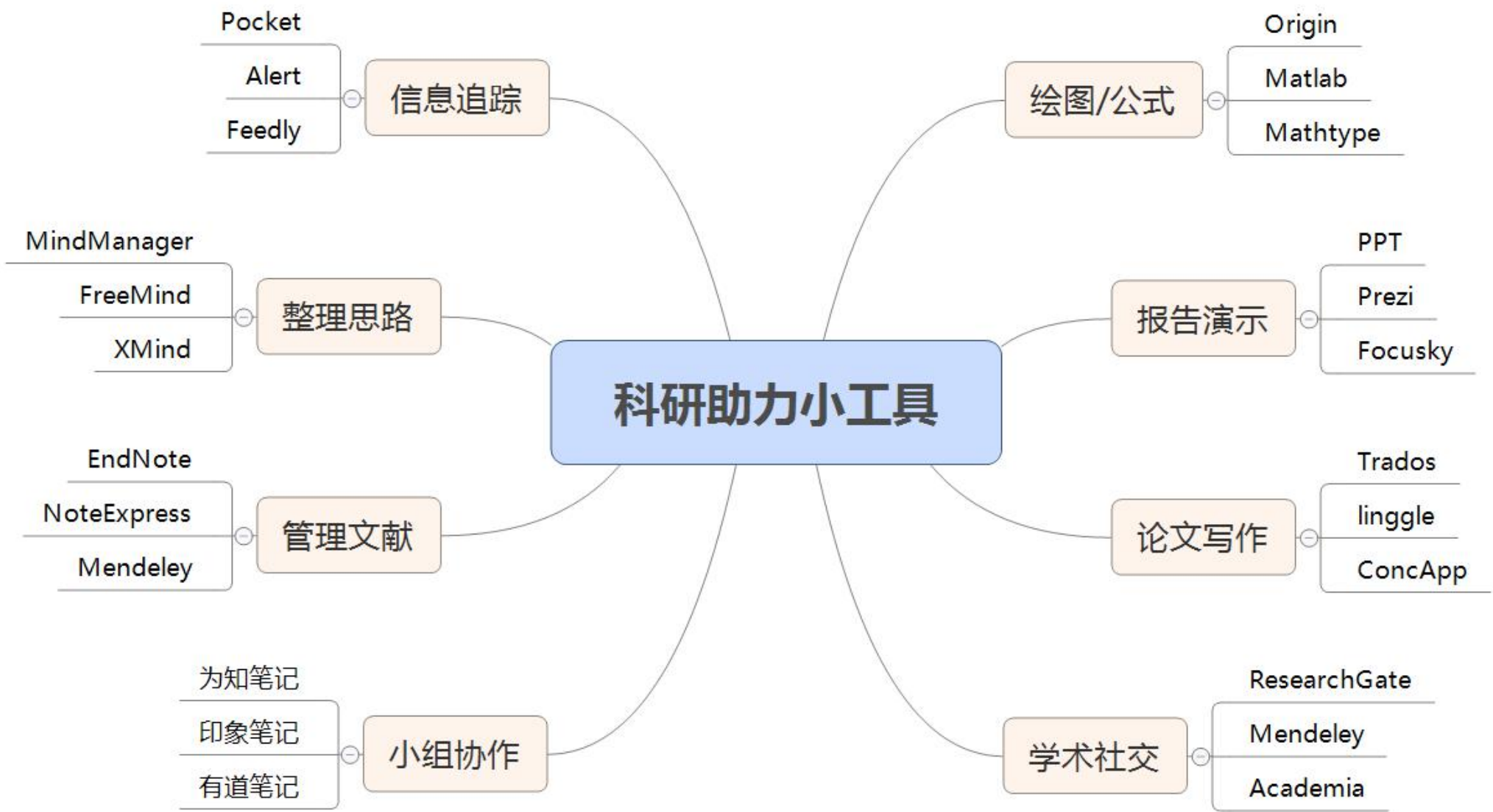


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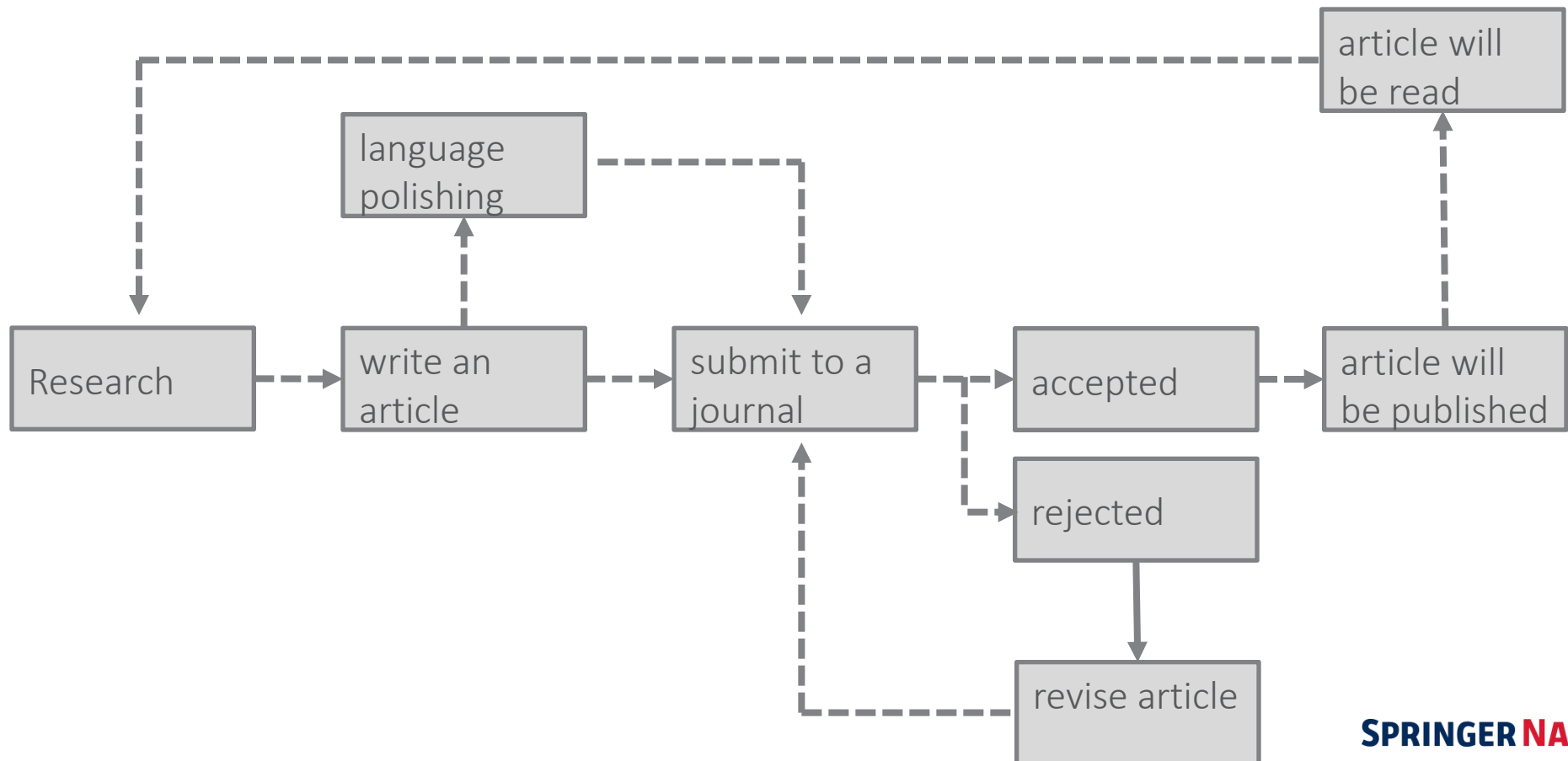
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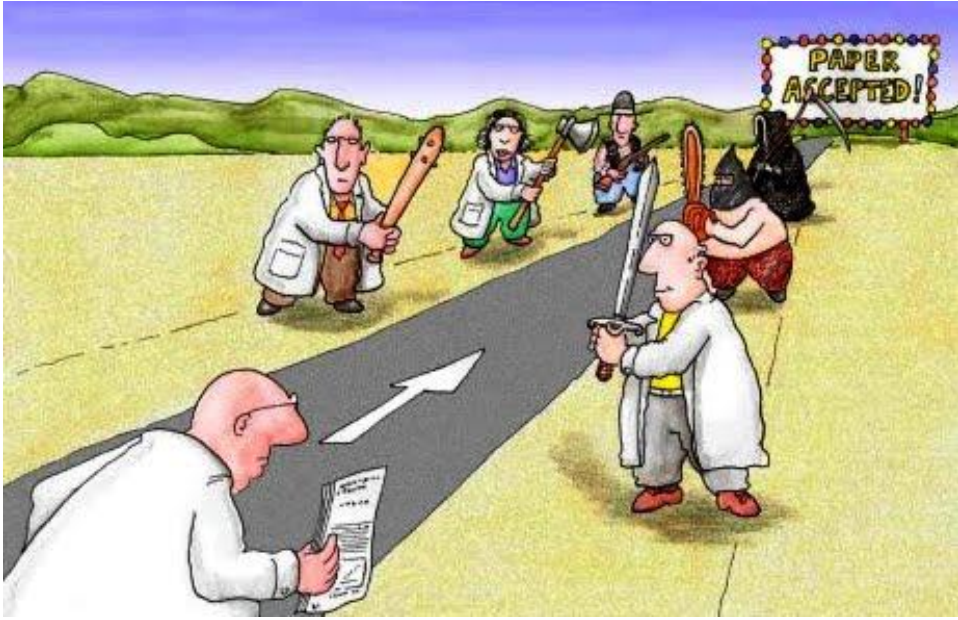


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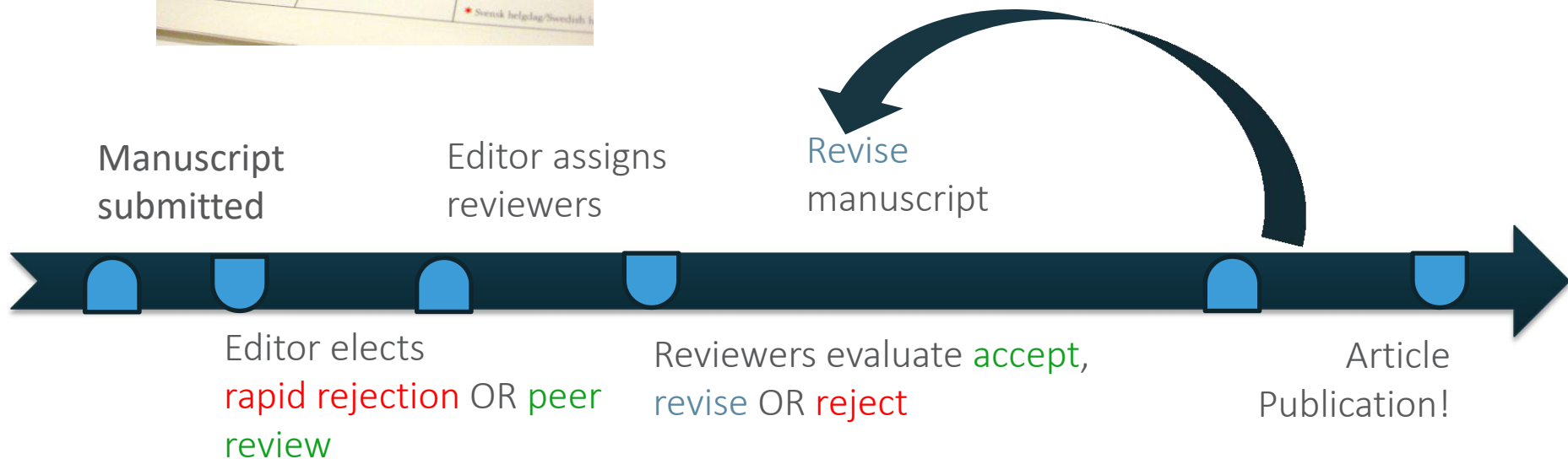


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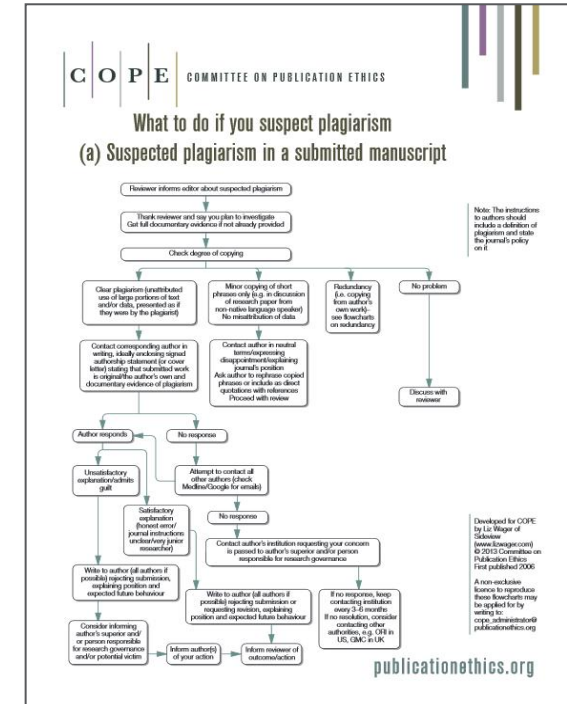
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How do Editors deal with plagiarism? 编辑如何处理抄袭

- Use plagiarism detection software 使用抄袭检查软件
- During submission 投稿过程中发现抄袭
- Ask authors for explanation 要求作者解释
- Authors may be allowed to re-write 重写
- Manuscript may be **rejected** 拒稿
- Editor may contact authors' institution
- 报告学校
- After publication 发表后发现抄袭
- May publish **retraction or correction** 撤稿或修正



8 Tips for writing a good paper

Before you begin

Research topics can be identified by exploiting opportunities



一开始时，你可以查阅本领域的文献。最初可以先看一些大家都感兴趣的期刊，看一些优秀的综述；当然，不要把自己的关注点局限在期刊里，看一本该领域内的书籍也是很有必要的，可以让你对该课题的历史及发展状况做一个全面的了解。



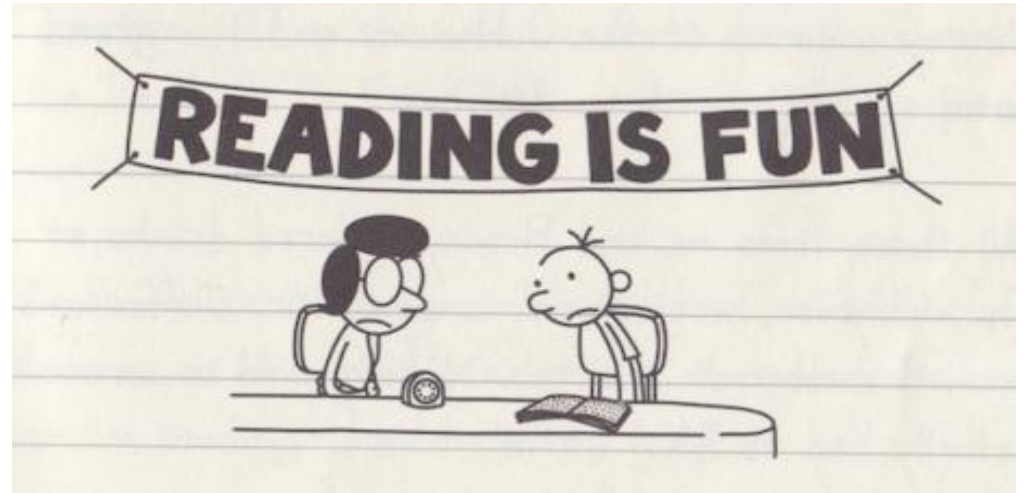
随着知识的积累，开始寻找一些令人困惑的现象，关于世界的未解之谜，新技术，亟需更佳解决方案的问题等。



带着准备好的问题与导师，师兄师姐交流，更可以参加一些学术会议，与该领域内某篇重要文献的作者直接进行交流。

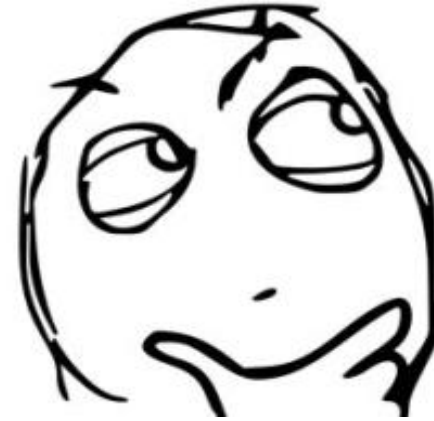
Tip 1

- **Read many papers 多读文章**
- Know the field
- Join a journal club
- Read outside of your area to develop broad scope – think about quality of work
阅读自己研究领域以外的文献，拓宽知识面——注重研究质量
- Be aware of reporting guidelines



Tip 2

- **Be objective about your work**
客观对待自己的研究



.....Editors and reviewers will be 😊

Tip 3

- **Write in good English 用英语好好写**
- Complex language is not needed. Best science is where complex ideas are expressed in a way that people not in that field can understand
用非专业人士也能看懂的方式来表述复杂的想法
- Poorly written manuscripts get rejected – reviewers or editors lose patience or can't 'see' the results or advance
表述不明的文章会被拒稿——审稿人和编辑会对该研究的结果丧失兴趣
- Use a professional copy-editing service

The ABC of writing style



accurate



brief



clear

Be accurate (准确)

- Tell your readers what they need to know

Original

Of the 16.9-fold genome coverage, the majority was from 454 sequencing by synthesis of paired and unpaired reads, with the remaining coverage from Sanger dye primer sequencing of paired reads.

Improved

Of the 16.9-fold genome coverage, 74% was from 454 sequencing by synthesis of paired and unpaired reads. Sanger dye primer sequencing of paired reads was used for the remaining 26% (Supplementary Table 1 and Supplementary Note).

Be brief (简要)

- Keep to the point
- Avoid redundancy

Original

Based on these results, we hypothesized that vaccinated control individuals would show similar cytokine profiles to those treated with compound X. To assess this hypothesis, we compared the cytokine profiles of the vaccinated control individuals with those of treated patients. We found a higher frequency of...

Improved

Based on these results, we hypothesized that vaccinated control individuals would show similar cytokine profiles to those treated with compound X. By contrast, we found a higher frequency of...

Brevity (简短)

Difficulty was experienced in obtaining the isolate in an extremely purified state.

The isolate was difficult to purify completely.

Be clear (清晰)

- Break up long sentences
- Put closely related ideas together

Original

Whereas chimpanzees are widespread across equatorial Africa, bonobos, which have a relatively small and remote habitat, which also meant that they were the last ape species to be described, live only south of the Congo River (Fig. 1a) and are the rarest of all apes in captivity.

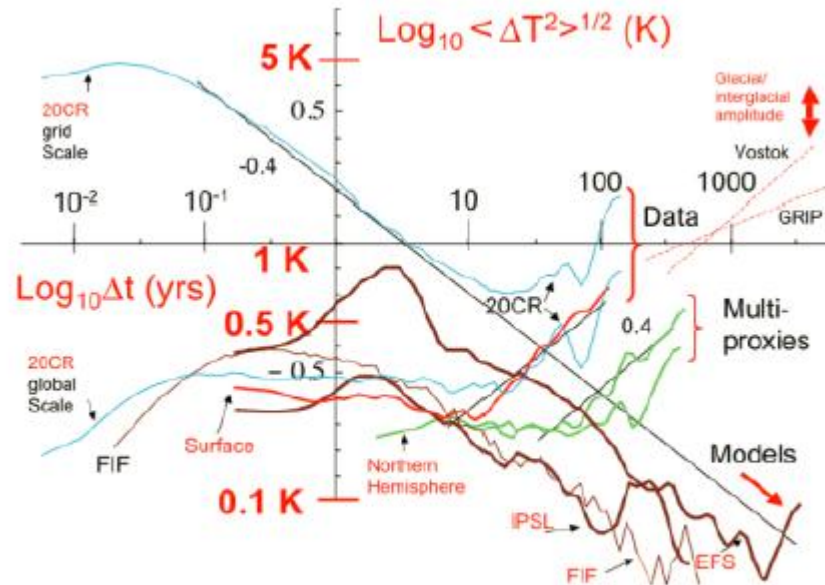
Improved

Whereas chimpanzees are widespread across equatorial Africa, bonobos live only south of the Congo River (Fig. 1a). As a result of their relatively small and remote habitat, bonobos were the last ape species to be described and are the rarest of all apes in captivity.

Be clear (清晰)

- Use simple words (but be specific)
- ✘ **We found that the technique that we utilized had a relatively high accuracy in comparison with absorption spectroscopy (fig. 2).**
- ✓ **Our technique was more accurate than absorption spectroscopy (fig. 2).**

Be clear (清晰)



Earth Syst. Dynam. Discuss., 3, 1259-1286, 2012

- Too much information!
- Difficult to pull the main claim of the paper out from the jumble of information provided. We need to be able to glance at the figures and understand them
- The axes labels of this graph can't be understood without referring to the text
- Trend lines: add more information to an already busy graphic
- Reference to a previous graphic ('Vostock' and 'GRIP')

Tip 4

Decide early on where to publish 提前决定投哪本期刊

- This will help shape your study, based on the goals needed for publication in your target journal. Will help define the form of study and advance required.

针对期刊对文章的要求进行研究，有助于把握研究方向和创新性。

- Look at journal's aims and scopes page

仔细阅读该期刊所涵盖领域及对文章的要求

- Think about how you will structure your papers when you design your experiment

在设计实验时就开始思考文章架构

- What controls and statistical tests are needed?

设置哪些对照组，使用何种统计方法

- What collaborators / co authors should you work with to complete study?

需要和哪些共同作者合作才能完成该研究

- What is your aim with study? What are you trying to show / prove?

研究目的是什么？想要表现或证明什么？

Tip 5

Quality is everything 质量决定一切

- Try to publish in as high a quality journal as you can.
尽可能发表在质量最高的期刊上
- One great study is better than several lesser quality ones
一篇高质量的文章 > 多篇内容相似的一般文章
- Avoid trying to publish lots of research papers that provide small amounts of new data from a single research project.
切勿将一项完整的研究分割成若干篇文章发表

Tip 6

Become a reviewer! 珍惜审稿的机会！

- Get used to how to critically assess science – it will help you to assess your own study
了解如何批判地评估科研成果，有助于准确评估自己的工作
- Ask your supervisor if you can help with the next review they do
向导师申请帮其完成下一次的审稿工作
- You'll become familiar with issues that reviewers raise as you see other reports
看别人的审稿报告，熟悉审稿人如何提问



Tip 7

• Respond to reviewers and editors 如何回复编辑和审稿人

- Ensure you understand what reviewers and editors are asking for (if unsure make an informal query to the editor prior to submitting your response).

明白评审和编辑提出什么要求

- Provide a full, and concise point-by-point response to the reviewers and editors.

提交完整的回复，将评审和编辑的要求逐点说明

- If you disagree with an issue, provide a clear rationale for your argument within the response. Back up with references where possible.

如果对评审提出的问题有异议，需在回复中提供详细的论证，最好附有参考文献

- Give clear indication where revisions in the manuscript have been made (tracked changes, highlighted etc).

指明对文章的哪些部分进行了修改

We thank the reviewers for their detailed and insightful evaluations of our submitted manuscript. We address these point by point.

Reviewer 1

The primary outcome measure is described as both 'proportion corrected severe anaemia in <24 hr' AND time to correction. One is a straightforward comparison to two proportions and the second a more complex time-dependent function. Since sampling was 'only' 8 hourly, do we really gain much from using the more complex analyses? Suggest separating out the two ways of describing this end point in the text and table 3.

In the protocol the primary outcome is "Correction of severe anaemia (to a Hb > than 6g/dl) at 24 hours"; before analysis was done, a decision was made to analyse this using time-to-event methods because of the potential for a child to abscond from hospital before 24 hours and for missing Hb measurements at 24 hours to lead to censored observations. The analysis of time from randomisation also indicates when this correction most commonly occurred. We have amended the main text to make this clearer. Because the decision was made on this primary analysis method before starting the analysis, we do not think that this should be changed now. (Note: Figure 3(a) presents the mean haemoglobin at 24 hours in children still alive in each group.)

A related issue is given that sampling Hb values was 8 hourly- how can figure 2 have been generated in which the probability of Hb correction is described as a continuous variable?

Although measurements were 8 hourly in the protocol there was some variation around this in practice. Figure 2 does show 'jumps' clearly indicating the 8 hourly measurements but it also provides additional information about when correction occurred as some jumps are larger than others. The title and y axis label have been changed to clarify that this shows the time to the first haemoglobin measurement >6g/dl.

Typos: methods Extra full stop 1st sentence in screened procedure and extra underscore from penultimate paragraph; "Furthermore, there is evidence indicating SMA has a"

We thank the reviewer for noting the grammatical errors- in the revised manuscript these have been corrected.

Reviewer 2

1. Provide comment on baseline differences particularly the greater proportion on patients in T30 with sickle cell anaemia and convulsions compared to T20; and the greater proportion of patients with "prostration" in the T20 group.

Tip 8

Learn to live with rejection! 正确看待被拒稿

- All scientific careers are faced with rejection
被拒稿是每个研究人员的必经之路
- Take reviewers advice and improve the study / manuscript
根据审稿人的意见进行修改
- If you are invited to resubmit, do the revisions that the reviewers request.
Don' t argue for the sake of it
如果有重投的机会，一定要根据审稿人的意见进行修改，切勿进行过多争论
- There are other journals
选择其他期刊
- Try not to resent negative comments
不要给出负面回应和评论
 - You can appeal If there has been an error 如果有事实错误可以申诉
 - If you have new data to support your findings 用新数据来支持发现

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1700余种， 11个学科。

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	Engineering	工程学
	Mathematics and Statistics	数学和统计学
	Physics and Astronomy	物理学和天文学
Medicine and Life Science 生物医学专辑	Biomedical and Life Sciences	生物医学和生命科学
	Medicine	医学
Social Science and Humanities 人文社科专辑	Behavioral Science	行为科学
	Business and Economics	商学和经济学
	Humanities, Social Sciences and Law	人文社科和法律

What is the ABC of writing style ?

The ABC of writing style



accurate



brief



clear

编辑如何处理抄袭？

How do Editors deal with plagiarism? 编辑如何处理抄袭

- Use plagiarism detection software 使用抄袭检查软件
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