



## Open Access Moving Forward

CALIS, 2014-05-13, 哈尔滨

王丹青 中国区商务拓展经理

# Outline

- 开放获取发展概况
- BioMed Central 和SpringerOpen 简介
- 开放获取的质量与全球影响力
- 开放获取全球最新动态
- 开放获取与图书馆的角色

# Open Access: 过去与现在

2000



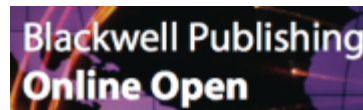
2014



OXFORD OPEN



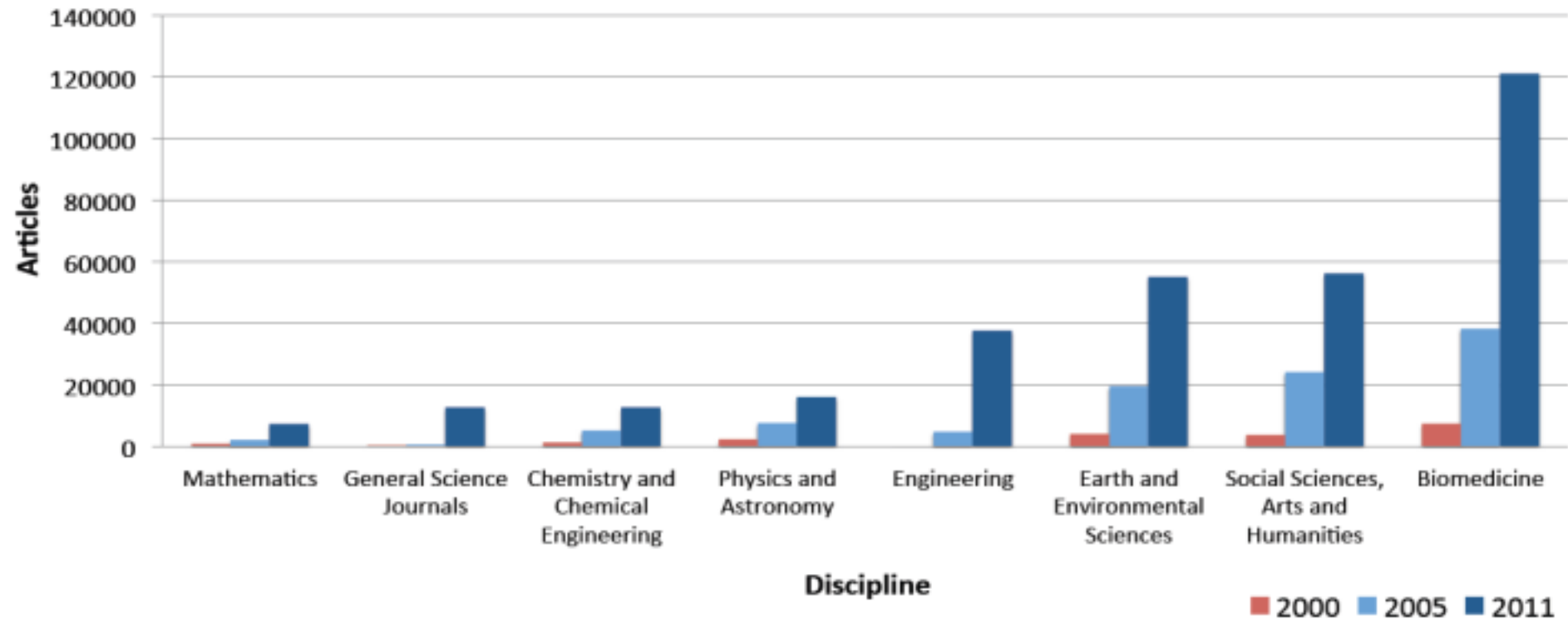
Hindawi



# Open Access大事记

- 2000 PubMed Central
- 2000 BioMed Central launches first articles**
- 2003 PLoS
- 2004 Springer Open Choice (1<sup>st</sup> “traditional publisher” to move)**
- 2004 Hindawi
- 2005 Nucleic Acids Research (published by OUP) converted to Open Access**
- 2006 PLoS One
- 2007 NIH Mandate**
- 2008 BioMed Central acquired by Springer**
- 2009 Chinese Academy of Sciences OA action**
- 2010 SpringerOpen**
- 2012 UK - Finch Report and £10m funding announcement**
- 2013 UK – RCUK policy takes effect**
- 2013 USA- FASTR Act – covers all agencies**
- 2014 Global Research Council meeting (May 26-28 Beijing, 2014)**

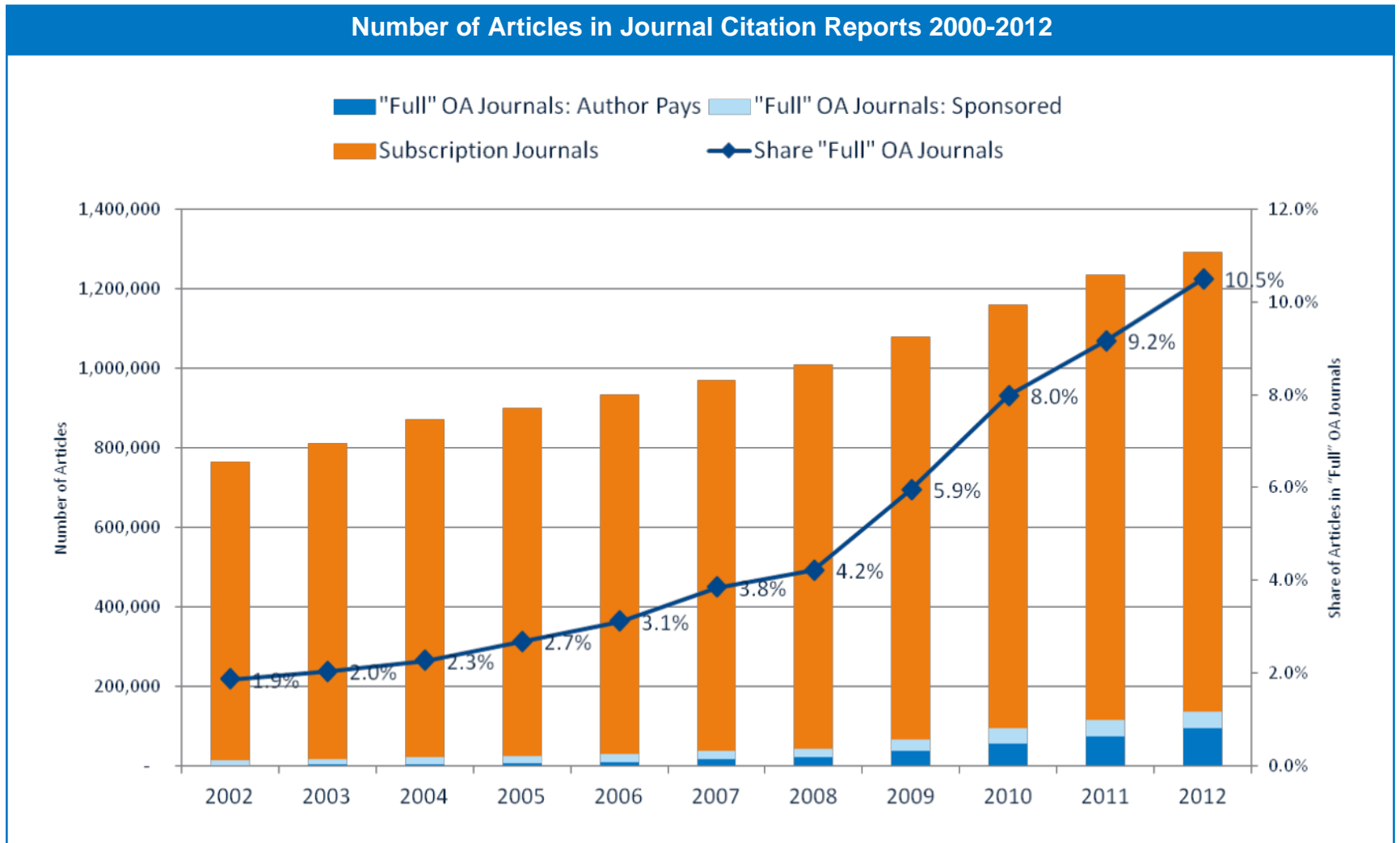
## Open Access发展: 各学科文章出版数量



Source: Anatomy of open access publishing: a study of longitudinal development and internal structure, Mikael Laakso and Bo-Christer Björk

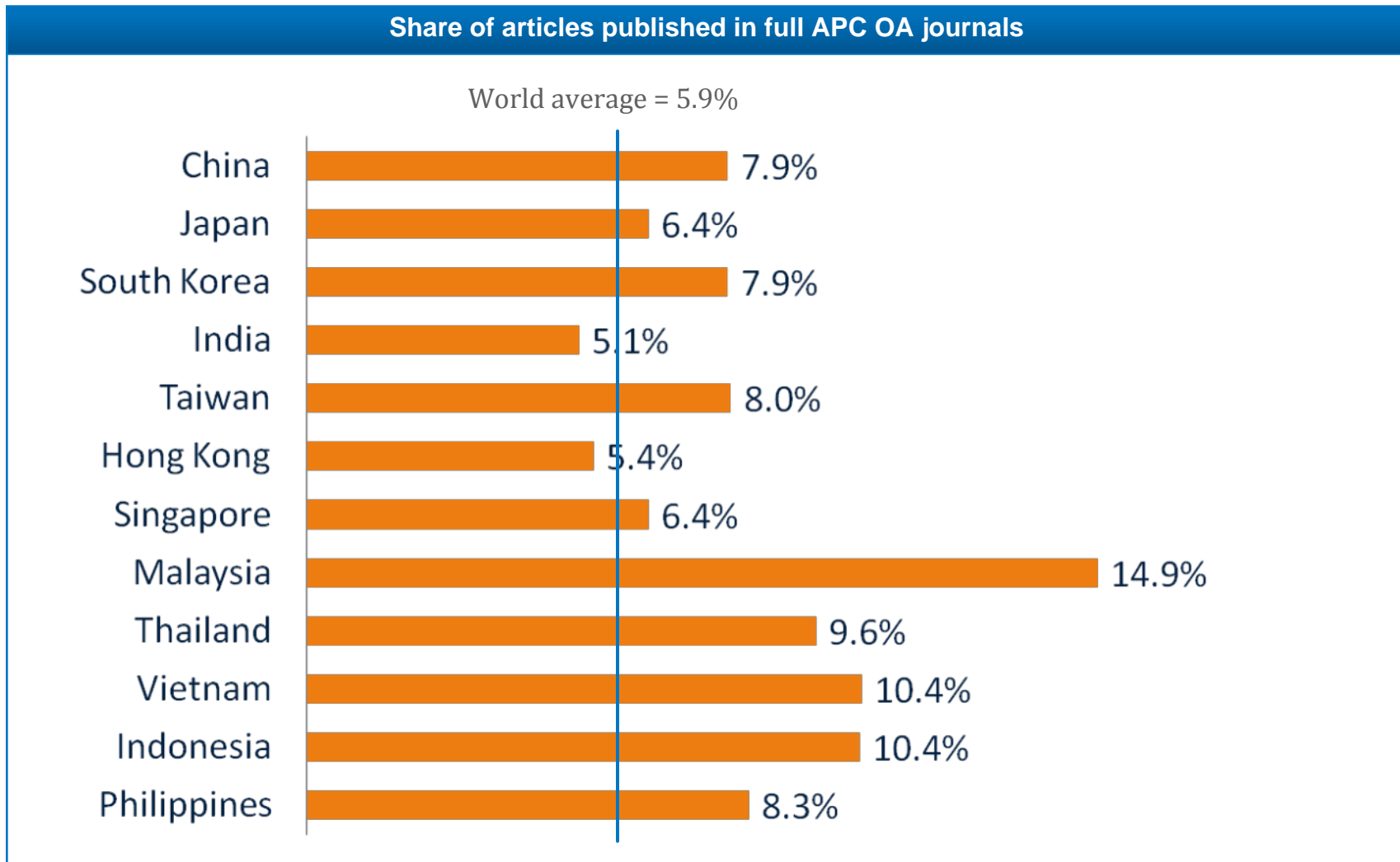
*BMC Medicine*, 2012, 10: 124

# Open Access 发展: SCI中的OA期刊比例



Sources: Journal Citation Reports 2012, DOAJ; Share OA Articles: Author Pays 2002-08 estimated

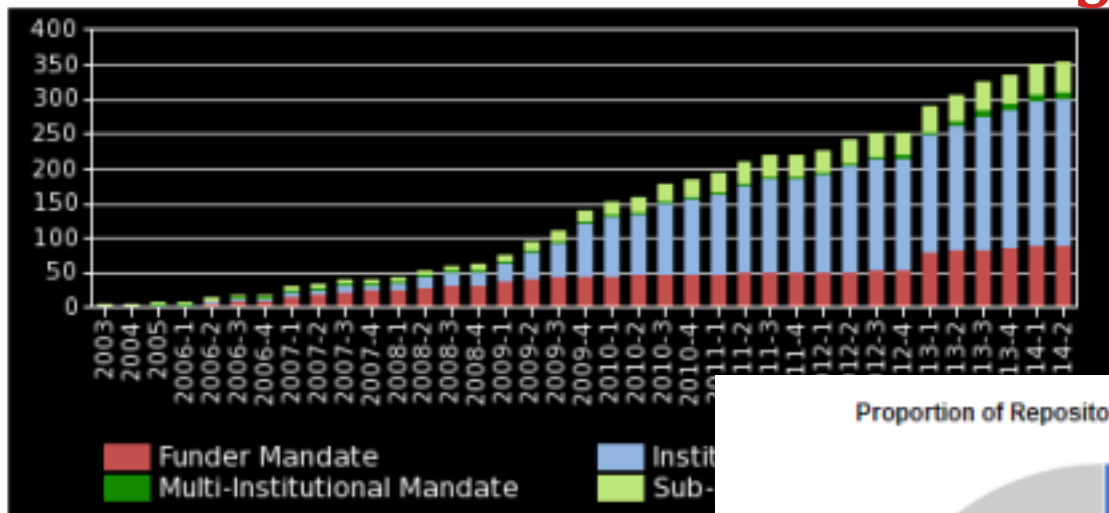
## 亚洲国家和地区选择OA出版的比例:相对较高



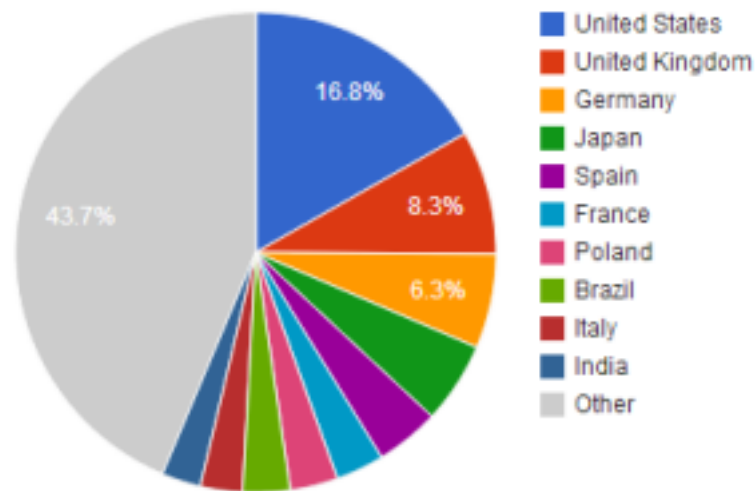
# 强制性OA政策全球分布

**348**项强制性OA政策

- 88 Funder Mandates
- 207 Institutional
- 44 Sub-institutional
- 9 Multi- institutional



Proportion of Repositories by Country - Worldwide



全球共**2,648**个机构知识库

(source ROARMAP, & ROAR on May 11, 2014)

Total = 2648 repositories

OpenDOAR - 11-May-2014





- 全球第一家OA出版社，现隶属于Springer出版集团
- 现共出版**260多种**期刊，涵盖生命科学和医学各领域
- 大多数期刊被SCI收录，众多期刊为本领域最好的期刊之一
- 与全球众多知名机构和学协会进行合作出版，提供专业高质出版服务：
  - ✓ 编辑服务，市场推广和战略支持；
  - ✓ 全球主要文摘数据库收录的咨询与支持；
  - ✓ 创新的出版平台和快捷的文章出版服务



- 2010年创立，Springer出版集团除BioMed Central之外的另一个OA出版品牌
- 发展迅速，现已出版**180**多种期刊
- 涵盖所有学科领域，实现了OA期刊的全学科覆盖
- 虽然各刊创立时间尚短，但是近**20**种期刊已获得影响因子
- 2012年，SpringerOpen开始覆盖**图书**出版

## OA期刊的质量: 与传统期刊无差别

### 商业模式不同

- 无需订阅
- 全球范围内无障碍访问
- 允许研究成果的再传播和再利用

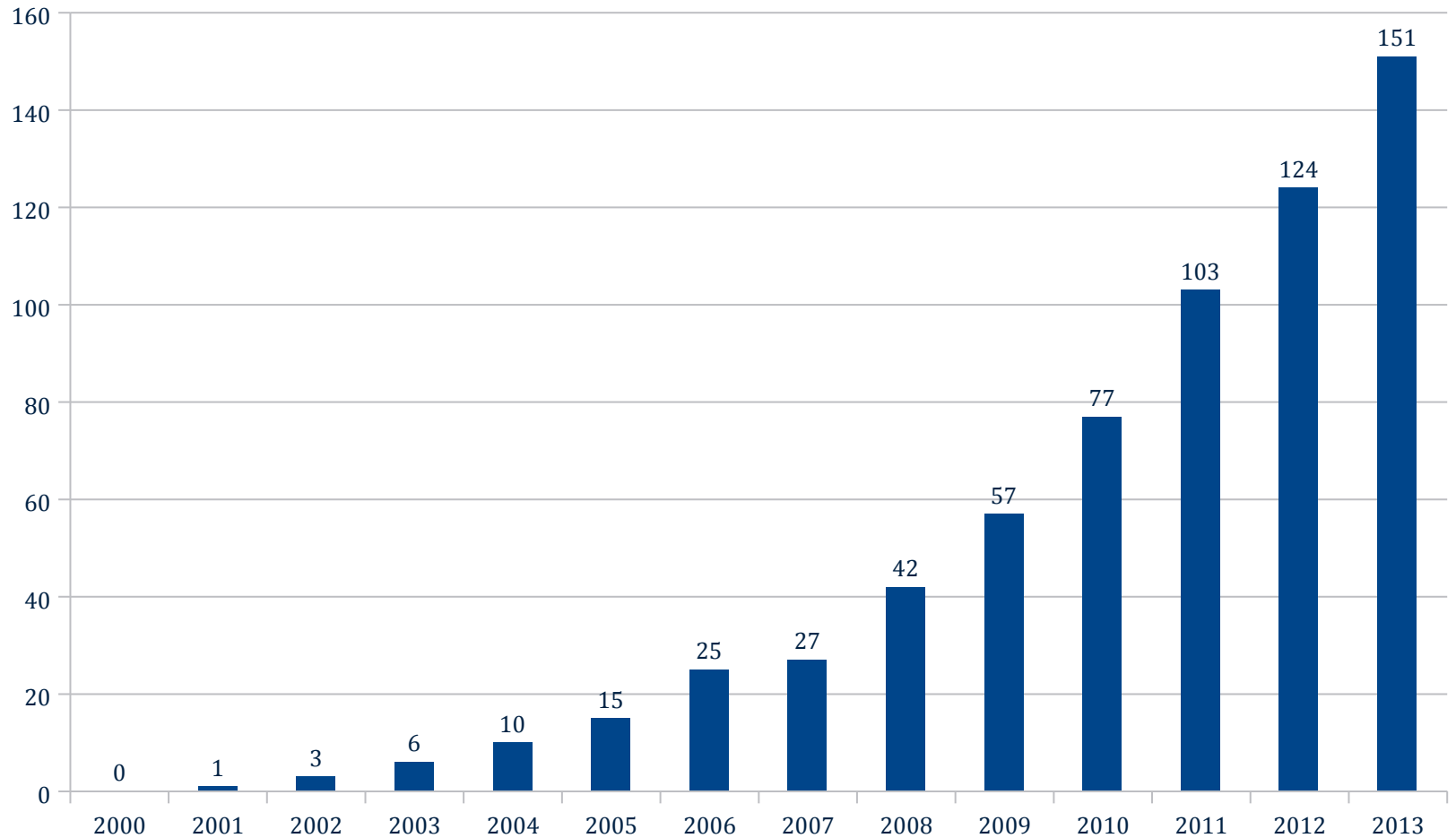


### 质量相同

- 同样拥有主编
- 同样拥有编委会
- 同样实行严格的同行评审
- 同样被全球主要文摘数据库收录



## BioMed Central影响因子期刊数量



## OA期刊质量控制途径

-加入 OASPA/DOAJ/COPE/WAME 等组织，与“掠夺性出版商”划清界限  
学术期刊必须是Committee on Publication Ethics (COPE)的成员

-这些机构本身也应该严格控制会员准入标准：在同行评审、APC透明度、机构管理等方面制定准则



# OA全球能见度和影响力



## OA全球能见度和影响力: 案例

- 1. Research** Open Access Highly accessed  
887989 **Logs are sensitive to small variations of the Earth's magnetic field**  
Accesses Vlastimil Hart, Petra Nováková, Erich Malkemper, Sabine Begall, Vladimír Hanzal, Miloš Ježek, Tomáš Kušta, Veronika Němcová, Jana Adámková, Kateřina Benediktová, Jaroslav Červený, Hynek Burda  
*Frontiers in Zoology* 2013, **10**:80 (27 December 2013)  
Abstract | Full text | PDF | ePUB | PubMed | 2 comments
- 2. Research article** Open Access Highly accessed  
113576 **DNA barcoding detects contamination and substitution in North American herbal products**  
Accesses Steven G Newmaster, Meghan Grguric, Dhivya Shanmughanandhan, Sathishkumar Ramalingam, Subramanyam Ragupathy  
*BMC Medicine* 2013, **11**:222 (11 October 2013)  
Abstract | Full text | PDF | PubMed | 4 comments | Editor's summary
- 3. Review** Open Access Highly accessed  
111521 **Nutrient timing revisited: is there a post-exercise anabolic window?**  
Accesses Alan Albert Aragon, Brad Jon Schoenfeld  
*Journal of the International Society of Sports Nutrition* 2013, **10**:5 (29 January 2013)  
Abstract | Full text | PDF | PubMed | Cited on BioMed Central | Editor's summary
- 4. Review** Open Access Highly accessed  
100000 **The effect of protein timing on muscle strength and hypertrophy: a meta-analysis**  
Accesses Brad Schoenfeld, Alan Aragon, James W Krieger  
*Journal of the International Society of Sports Nutrition* 2013, **10**:53 (3 December 2013)  
Abstract | Full text | PDF | ePUB | PubMed | Editor's summary
- 5. Review** Open Access Highly accessed  
61160 **Childhood obesity, prevalence and prevention**  
Accesses Mahshid Dehghan, Noori Akhtar-Danesh, Anwar T Merchant  
*Nutrition Journal* 2005, **4**:24 (2 September 2005)  
Abstract | Full text | PDF | PubMed | Cited on BioMed Central | 2 comments

# OA全球能见度和影响力:专门服务于中国科研的平台

<http://www.biomedcentral.com/china>



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Languages

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## 论文精选

Editor's picks

Latest



### What are you drinking?

The colour and shape of receptacle was predicted to contain different drinks, depending on the nationality of the drinker, with differences between Chinese and American participants.

*Flavour* 2014, 3:3



### *Aspergillus anaerobic nitrate metabolism*

## 新闻与动态

热烈庆祝复旦大学成为BioMed Central机构会员

复旦大学近期加入BioMed Central机构会员计划,今后来自复旦大学的作者在BioMed

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# OA全球能见度和影响力: 媒体宣传最大限度提升影响力

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The Essential in The Subject:  
**Phylogenetics Sheds Light on Crime**  
Researchers reconstructed the evolutionary histories of hepatitis C virus samples to confirm that a Spanish anesthesiologist infected 275 of his patients.

By Kate Vardell | July 26, 2013

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## 媒体宣传: 案例

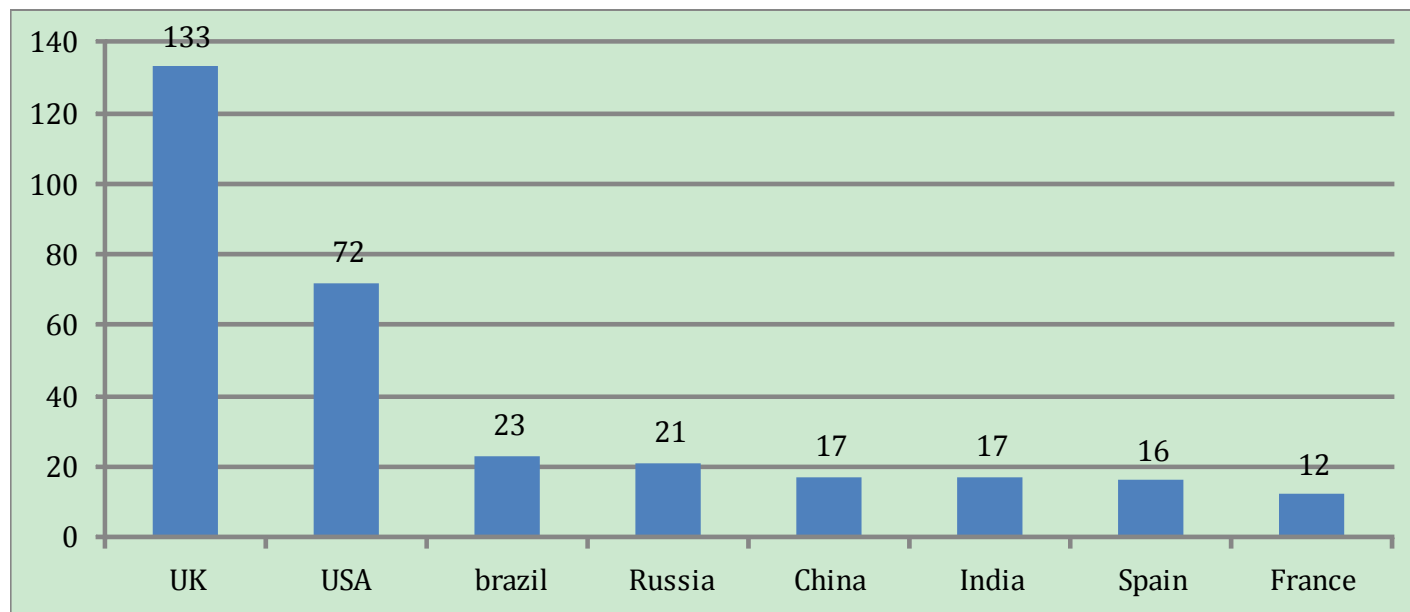
文章名: Generation of tooth-like structures from integration-free human urine induced pluripotent stem cells

机构名称: 中科院广州生物医药与健康研究院

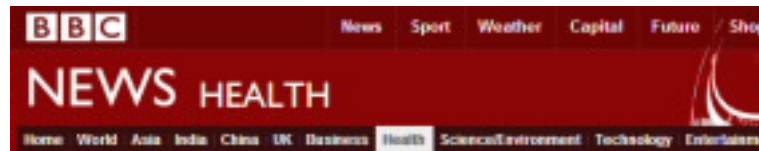
出版日期: 2013年7月30日

单篇访问量: 32,000+ accesses (截至2014年5月12日)

媒体报道: 来自全球60多个国家440多家媒体



# 媒体宣传: 案例



29 July 2013 Last updated at 23:44 GMT

## New teeth grown from urine

By James Gallagher

Health and science reporter, BBC News

Scientists have grown rudimentary teeth out of the most unlikely of sources, human urine.

The results, published in *Cell Regeneration Journal*, showed that urine could be used as a source of stem cells that in turn could be grown into tiny tooth-like structures.

The team from China hopes the technique could be developed into a way of replacing lost teeth.

## cbcnews | Technology & Science

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## Human urine stem cells used to grow teeth

Tooth grown in 3 weeks inside mouse kidney

By Emily Chung, CBC News | Posted: Jul 31, 2013 12:58 PM ET | Last Updated: Jul 31, 2013 3:18 PM ET

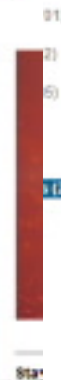
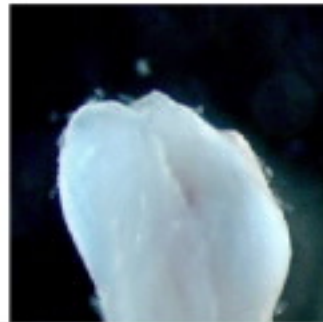
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Share 1  
Email

### Related Stories

- Stem cells: FACS
- Girl gets stem cell windpipe in historic operation

Stem cells generated from human urine have been used by Chinese scientists to grow structures in mice resembling human teeth.

The ability to "regenerate teeth with patients' own cells" is an "ideal solution" to the loss of teeth through accidents or disease, the researchers say in a paper describing their



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## Stem cells extracted from urine used to 'grow teeth'

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"Scientists have grown rudimentary teeth out of the most unlikely of sources, human urine," BBC News reveals.

Tuesday July 30 2013

The story is based on a laboratory study that used pluripotent stem cells generated from human urine cells to grow tooth-like structures in a group of mice. Pluripotent stem cells have the potential to develop into any type of body cell. These stem cells were then combined with early dental tissue obtained from mouse embryos and then transplanted into the bodies of mice.



Stem cells were implanted in mice to grow tooth-like structures

### 40. Research Open Access Highly accessed

32015  
Accesses

## Generation of tooth-like structures from integration-free human urine induced pluripotent stem cells

Jingfei Cai, Yanmei Zhang, Pengfei Liu, Shubin Chen, Xuan Wu, Yuhua Sun, Ang Li, Ke Huang, Rongping Luo, Lihui Wang, Ying Liu, Ting Zhou, Shicheng Wei, Guangjin Pan, Duanqing Pei

*Cell Regeneration* 2013, 2:6 (30 July 2013)

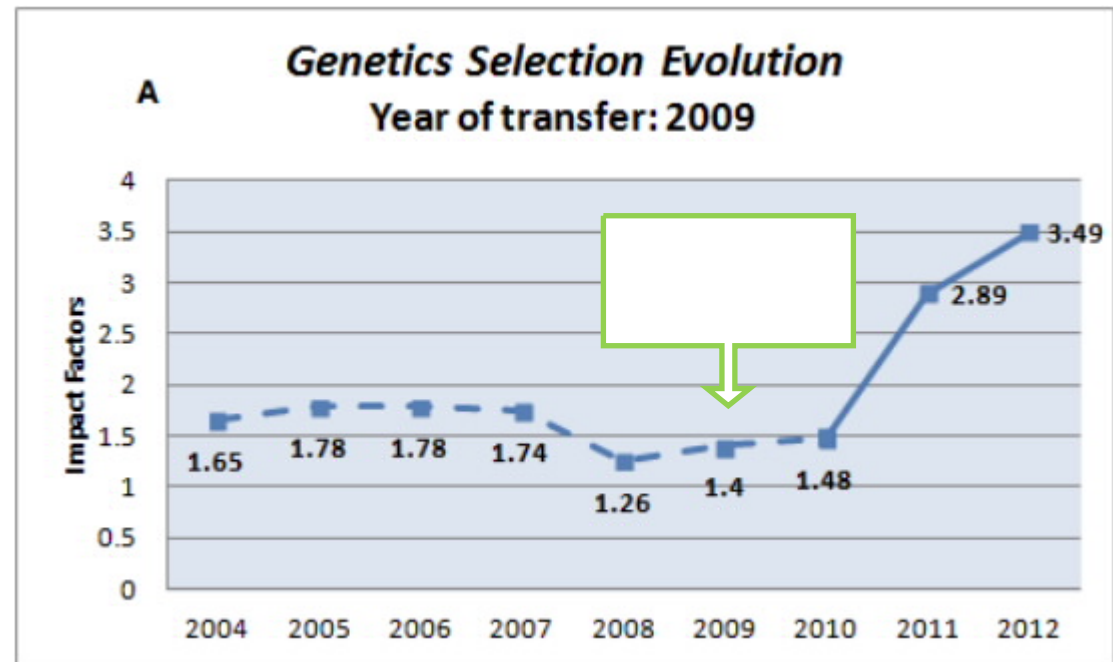
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## OA对期刊的影响力

- 传播更广泛、能见度更高、更国际化
- 增加文章数量、提高文章质量（原因之一在于越来越多的资助机构要求研究成果开放获取）
- 被主要文摘数据库收录(所有BioMed Central期刊均被PubMed收录)
- 提高期刊影响力

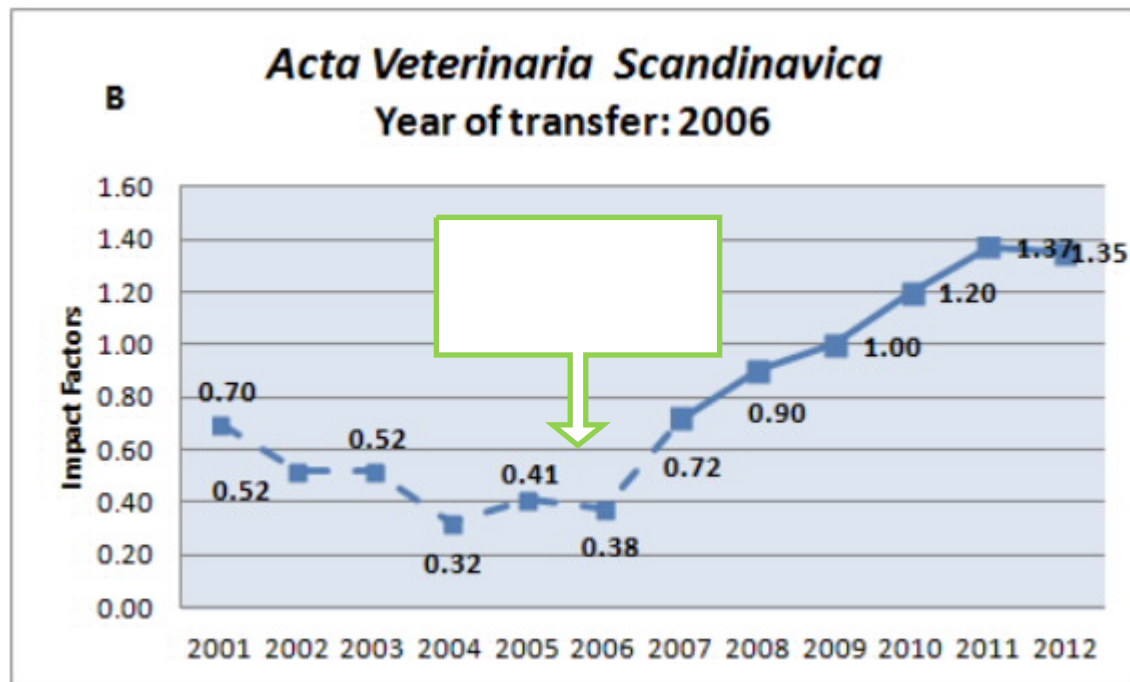
## OA对期刊的影响力 案例一: Genetics Selection Evolution

- 2009年转为OA期刊
- 影响因子翻倍



## OA对期刊的影响力 案例二: Acta Veterinaria Scandinavica

- 拥有50年历史的期刊
- 2006年转为OA期刊
- 影响因子显著增长
- 现已是兽医科学领域前1/3期刊



## OA政策井喷式发展:政府和重要组织在行动

- 美国:
  - 2013年2月13日通过FASTR政策  
(Fair Access to Science & Technology Research – successor of FRPAA)
  - 2013年5月9日,进一步通过“开放数据”政策
  - 2013年8月,开放数据网站启动  
(<http://www.whitehouse.gov/blog/2013/08/16/progress-toward-opening-government-data-resources>)
- 欧盟: 2014年起, Horizon 2020项目开始实施强制性OA (2014-2020)
- 英国: 2013年4月, RCUK实施强制性OA政策
- 阿根廷: 2013年11月13日, 政府开始实行强制性OA法律
- 墨西哥: 2014年3月, 政府通过Open Access法案

# OA政策井喷式发展:谁是下一个?

**Annual  
Global  
Meeting**  
Berlin  
27-29 May  
2013

GLOBAL  
RESEARCH  
COUNCIL

中国!

**2014 GRC Meeting:**  
5月 26-28日, 北京

## Action Plan towards Open Access to Publications

endorsed during the 2<sup>nd</sup> Annual Global Meeting, 27 – 29 May 2013, Berlin / Germany

Assuming that providing research results in open access is beneficial to many stakeholders and will lead to better research, this document suggests a number of activities by which participants in the Global Research Council (GRC) can foster the open exchange of research results. After briefly introducing the concept and the benefits of open access, some common principles for transitioning to open access are suggested as a basis for the action plan. The proposed activities aim at raising awareness for open access, at promoting and supporting open access, and at assessing the implementation of the actions suggested. The action plan is designed to take into account that participants in the GRC come from various backgrounds, have various degrees of expertise in dealing with open access, and have different remits. Thus, funding agencies need to consider which of the proposed activities are appropriate to be taken up by (possibly consortia of) participants in the GRC.



## 图书馆面对OA的态度与角色

NO!

拒绝?

欢迎?




参与?

参与!

如果不参与我就OUT了!



## 图书馆面对OA的态度与角色: 如何参与?

- **绿色OA**      建立机构知识库
- 
- **金色OA**      参与OA出版, 为科研人员提供便利



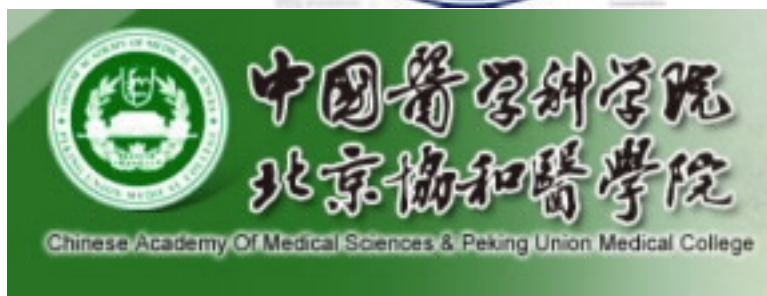
科研经费v.s. 图书馆经费?

## 经费问题解决方案: 期刊+会员



- 以购买期刊的名义成为机构会员，支持并参与OA出版
- 在BMC和SpringerOpen共440多种期刊发文享受优惠
- 提高图书馆的影响力，加大图书馆对科研的贡献
- 使图书馆真正参与到金色OA的发展中

## 中国会员机构一览

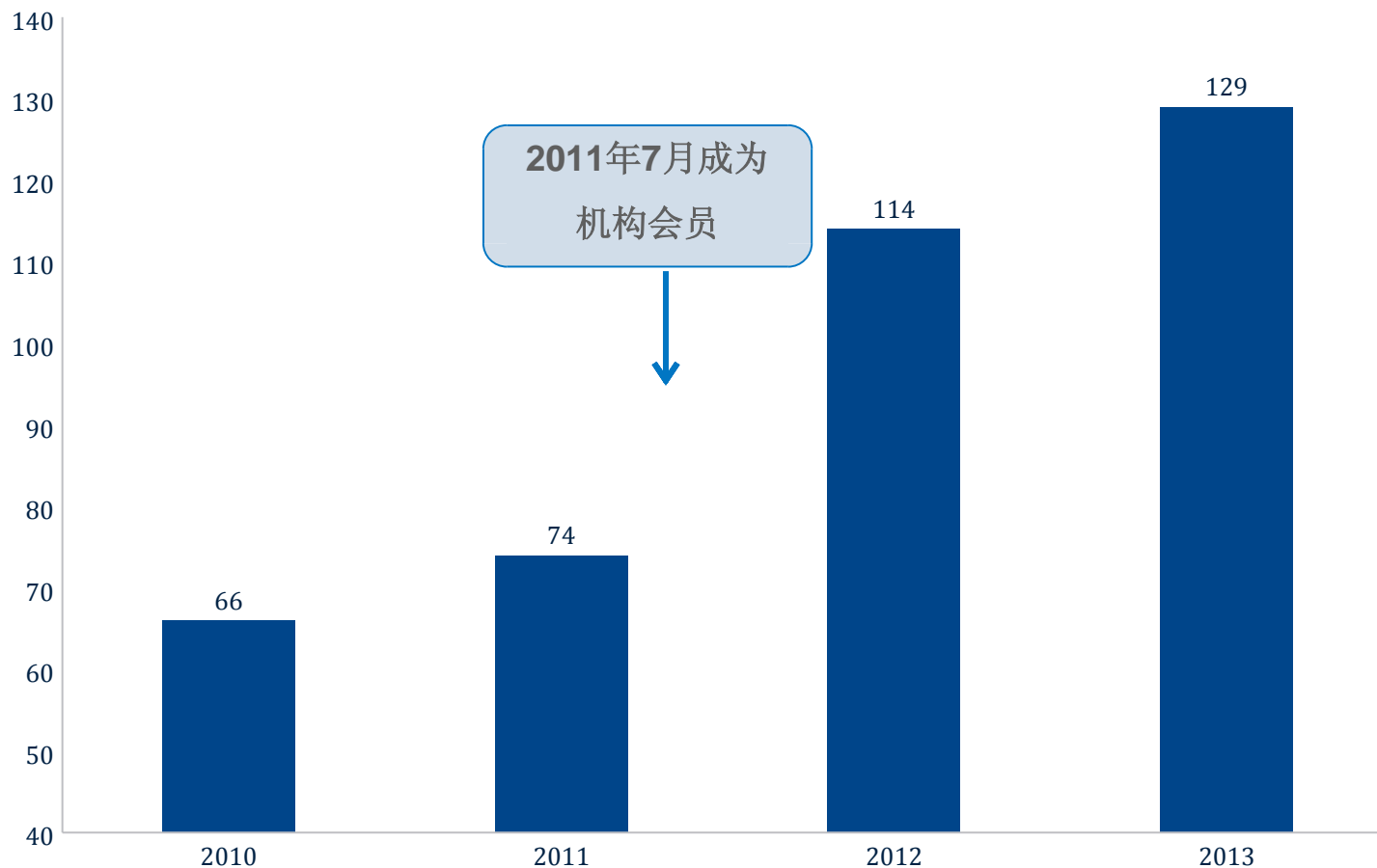


- 第二军医大学海军医学系
- 中国疾控中心寄生虫病预防控制所
- 中国农科院兰州兽医研究所
- 北科生物

更多即将加入!

## 中国会员机构发文量增长案例: 上海交通大学

BioMed Central 2010-2013年发文量 上海交通大学



# OA培训讲座预告

5月15日14:20-15:00, 郑翔, 主楼508室

Thank you very much

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[diane.wang@biomedcentral.com](mailto:diane.wang@biomedcentral.com)