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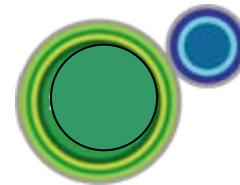
开放式的检索发现平台，加快科学发展的步伐



Allan Lu 鲁昕
Director, ScienceDirect

New Platform: Open to accelerate science

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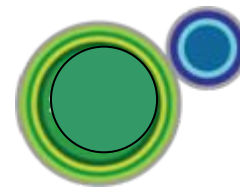


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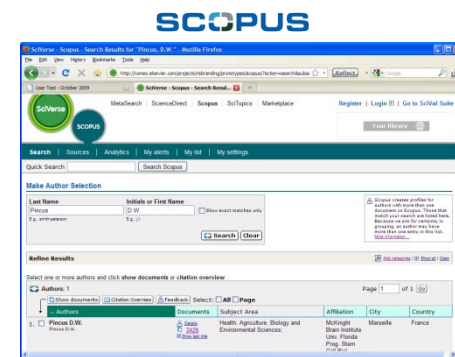
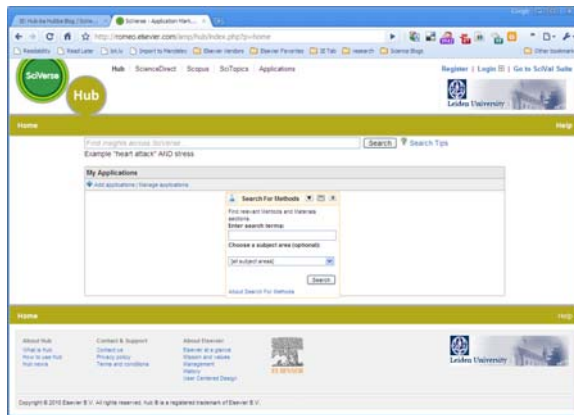
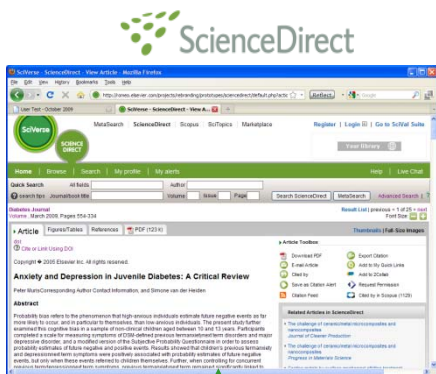
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New Platform: Overview

平台构成：科技信息整合，检索；应用程序的使用



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API

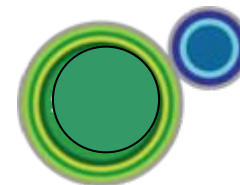


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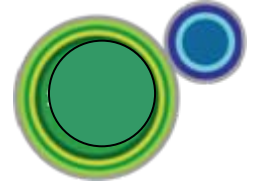


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Agenda

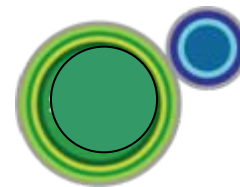
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Search workflow pain point
检索流程痛点

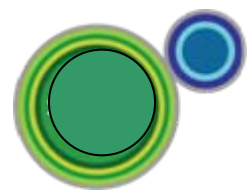
- Spend 6.5hrs/week gathering information with 30-35% search failure rates
- 每周花费六个多小时搜索文献，多于三成是失败的检索

Sources of the pain
困难的原因

- Multiple search products
- 不同的检索系统
- Keyword search, not precise
- 不确切的关键词检索

Address search workflow pain points

解决检索流程中的痛点



The screenshot shows the ScienceDirect search results page for 'Alzheimers stem cell'. The search results are filtered to show 1492 unique results from 4000 documents, limited to the years 2005 to 2009 and the subject area of Neuroscience. A timeline chart shows the distribution of records from 1996 to 2009, with 2,837 records selected. The search results list includes four entries, each with a preview and options to view the full text or related results.

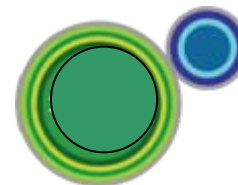
Search filters 筛选检索结果

De-duplicated results 避免重复文献



Applications to address search workflow challenges

用应用程序进一步解决检索流程中的痛点，难点



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page 1 of 20 Go Next page >

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1. **The role of glycogen synthase kinase 3 in the early stages of Alzheimers' Disease**
FEBS Letters, Volume 582, Issue 28, 26 November 2008, Pages 3848-3854
 Felix Hernandez, Jesus Avila
 ...folate deficiency on neutral stem cells (NBCs) in culture...phytomycin. The resulting cell suspension was transferred... Significant differences in cell proliferation were...analyses in medium of neural stem cell culture. In accordance...
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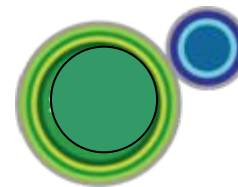
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Journal of Clinical Biochemistry and Nutrition, 45 (1), p. 14-19, Jul 2009
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4. **Understanding Alzheimers Disease**
http://www.uth.tmc.edu/uth_org/hcpc/understanding_alz... Mar 2007
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Applications to address pain points in workflow of studying methodology

应用程序为实验方法调研提供捷径



Methodology search application
检索实验方法的应用程序

Pain points in studying methodology
实验流程中的痛点

- Most time consuming research tasks
- 弄清实验方法是科研中最费时间的
- Most experiments fail
- 方法中的问题导致多数实验的失败

Source of the pain
困难的原因

- No method-specific search functions
- 没有专用于实验方法的检索功能
- Insight scattered in many articles
- 实验的完整表述分散在多篇文章里

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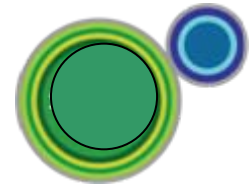
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Different applications to address different pain points in workflow of studying methodology

用相应的应用程序解决实验流程中不同的痛点，难点



2. Materials and methods

2.1. Patients and methods

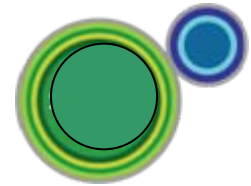
One hundred and two Japanese patients who were histologically diagnosed as having NAFLD at Tokyo Women's Medical University between 1995 and 2005 were evaluated along with 100 healthy subjects who served as controls. All liver biopsy specimens were examined using the following stains: hematoxylin-eosin, Mallory, and silver reticulin. Fibrosis was scored using a 5-grade scale: F0, normal connective tissue; F1, foci of perivenular or pericellular fibrosis in zone 3; F2, perivenular or pericellular fibrosis confined to zones 3 and 2, with or without portal/periportal fibrosis; F3, bridging or septal fibrosis; F4, cirrhosis [2,15,16]. Steatosis was graded on a scale of 1–3: 1, mild (affecting 10–33% of hepatocytes); 2, moderate (33–66% of hepatocytes); 3, severe (>66% of hepatocytes). Inflammation was graded as mild, moderate or severe based on the reviewer's overall impression. The diagnosis of NAFLD was established based on the following criteria. (1) Histologically macrovesicular steatosis affecting at least 10% of hepatocytes and classified as either simple steatosis or steatohepatitis (NASH). In addition to steatosis, the minimum criteria for the diagnosis of NASH included the presence of lobular inflammation, ballooning degeneration and perivenular or/and pericellular fibrosis (fibrosis stage ≥ 1) [2,15–17]. (2) Intake of less than 40 g of ethanol per week, as confirmed by physicians and family members with the patients. (3) Appropriate exclusion of other liver diseases such as alcoholic liver disease, viral hepatitis, autoimmune hepatitis, drug-induced liver disease, primary biliary cirrhosis, primary sclerosing cholangitis, and metabolic liver diseases. In addition, the NAFLD activity score (NAS) was



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Electroencephalography and Clinical Neurophysiology/Electromyography and Motor Control
Volume 76, Issue 2, 15 July 2008, Pages 188-197

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The cytostatic activity of pyrimidine nucleosides is strongly modulated by Mycoplasma hyorhinis infection: Implications for cancer therapy

Annelies Bronckaers,^a Jan Balzarini,^a Sandra Liekens,^a

^a Rega Institute for Medical Research, K.U. Leuven Articles (33) | References (1100) | Cited by (652)
Received 27 March 2008; accepted 30 April 2008 Author profile of Sandra Liekens Provided by Scopus

Abstract
Nucleoside analogues are widely used as chemotherapeutic agents in the treatment of cancer. Several cancers are reported to be associated with mycoplasmas (i.e. Mycoplasma hyorhinis), which contain a number of nucleoside-metabolizing enzymes. Pyrimidine nucleoside analogues, such as 5-fluoro-2'-deoxyuridine (FdUrd), 5-trifluorothymidine (TFT) and 5-halogenated 2'-deoxyuridines can be degraded by thymidine phosphorylase (TP) to their inactive bases. We found in M. hyorhinis-infected MCF-7 breast carcinoma cells (MCF-7/HYOR) a mycoplasma-encoded TP that dramatically (20–150-fold) reduces the cytostatic activity of these compounds. The reduction in cytostatic activity could be fully restored in the presence of TPI (5-chloro-6-[1-(2-iminopyrrolidinyl)methyl]uracil hydrochloride), a known inhibitor of human TP. This observation is in agreement with the markedly decreased formation of active

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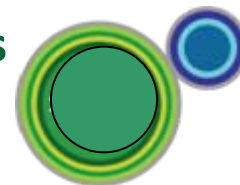
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Short communication

Production and analysis of ochratoxin A produced by *Aspergillus ochraceus* ITEM 5137 in s...

Giuseppe Meca^a and Alberto Ritieni^a

^aDipartimento di Scienza degli Alimenti, Università di Napoli "Federico II", 80055 Portici, Napoli, Italy
Received 2 December 2008; revised 18 February 2009; accepted 12...

Abstract
A rapid simple and economical method was described for the determination of ochratoxin A in *Aspergillus ochraceus* ITEM 5117 grown in a biofermenter in submerged culture. The mycotoxin was completely resolved by using the mixture of acetonitrile, water and acetic acid (49:49:2 v/v) as the mobile phase with a flow rate of 1.0 mL/min. Mean recoveries of ochratoxin A ranged from 95.36% to 103.15%. The limit of detection for ochratoxin A in medium...

acetic acid (compound)

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The mycotoxin was completely resolved by using the mixture acetonitrile, water and **acetic acid** (49:49:2 v/v) as the mobile phase with a flow rate of 1.0mL/min.

Article

The mobile phase was a mixture of acetonitrile, water and **acetic acid** (49:49:2 v/v, respectively) at a constant flow of 1mLmin⁻¹ under/using isocratic conditions and an Oxy Monolithic C18 100x3mm ID 5µm

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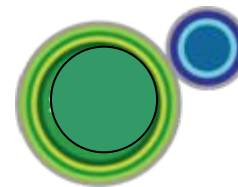
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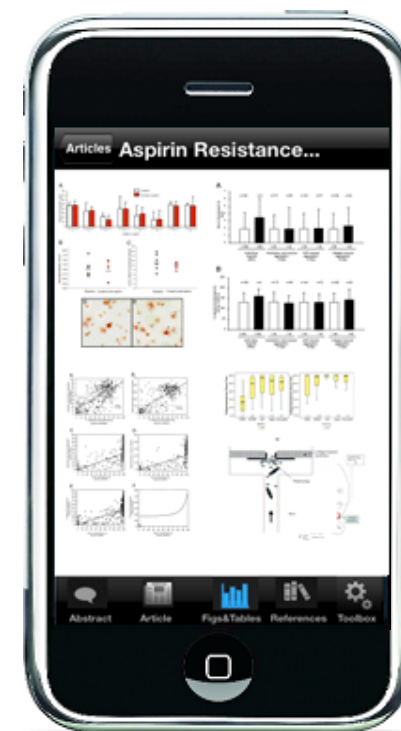
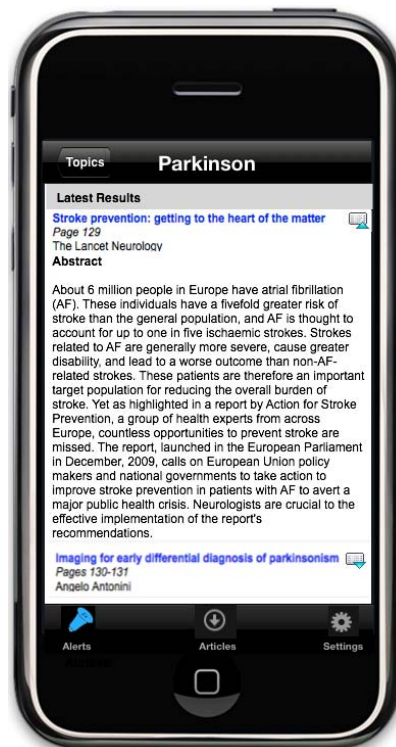
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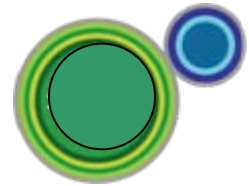


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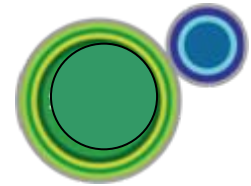
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Exploiting the hallmarks of cancer^{*1}: the future conquest of breast cancer

G. W. Sledge^{a, b}, K. D. Miller^a

^a IN University School of Medicine, Indianapolis, IN 46202, United States

^b Indiana Cancer Pavilion, RT-473, 535 Barnhill Dr., Indianapolis, IN 46202, United States

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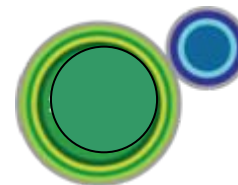
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1 <input type="checkbox"/> Development of a direct competitive enzyme-linked immunosorbent assay for parathion residue in food samples View at publisher Full Text Show abstract	Gui, W.-J., Liu, Y.-H., Wang, C.-M., Balzani, J.	2009	Analytical Biochemistry 393 (1), pp. 98-94	0
2 <input type="checkbox"/> Aluminum tolerance in a spermidine synthase-overexpressing transgenic European pear is correlated with the enhanced level of spermidine via alleviating	Yan, X.-P., Ban, Y., Inoue, H., Matsuda, N., Balzani, J.M., Moriuchi, T.	2009	Environmental and Experimental Botany 66 (3), pp. 471-478	0

Scopus features & functionality will continue to be enhanced as well

将会持续改进Scopus信息揭示与引文分析特点和功能





**Consistent
SciVerse user
experience**
协调一致的用户
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Make Author Selection

Last Name

E.g., smith-peterson

Initials or First Name

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Select one or more authors and click **show documents** or **citation overview**.

Authors: 1

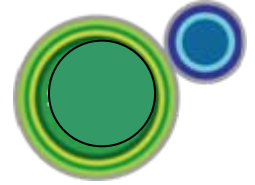
Page of 1

Select: All Page

	Authors	Documents	Subject Area	Affiliation	City	Country
1.	<input type="checkbox"/> Pincus D.W. <small>Pincus D.W.</small>	Details 2428 Show last title	Health; Agriculture, Biology and Environmental Sciences;	McKnight Brain Institute Univ. Florida Prog. Stem	Marseille	France



ELSEVIER



Agenda

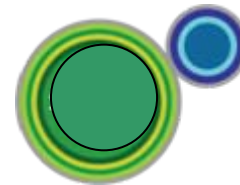
Search and Discovery Workflow Solutions

文献检索，科学发现工作流程中的新功能和应用程序

- ◆ Search 检索及应用程序
- ◆ Application Marketplace 应用程序市场
- ◆ Open to accelerate science 开放平台，共同研发，加速科学发现

New platform: Open to accelerate science

新的开放平台，共同研发，加速科学发现

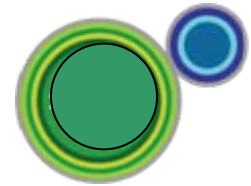


...By opening *ScienceDirect* and *Scopus* content through API for third-party application development, ...

...以应用程序接口API的方式开放信息文献库藏，使研究人员及第三方软件开发商都有机会研制“个性化”的应用程序， ...

Developers to have access to the platform for developer resources and community

应用程序研发人员将利用平台分享研发资源，构建研发团体



Home | My Projects | Resources | Community | Blog | Profile Help

Open for Developers

The SciVerse Applications Developer Portal offers web services, resources and APIs to allow developers to easily create applications for the scientific community and stay up to date on events and announcements.

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Torquent per conubia nostra, per inceptos himenaeos. Integer sagittis iaculis ligula. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque bibendum, ligula ac tristique sagittis, dolor est laoreet nisi, ut iaculis metus erat quis justo. Vestibulum porta suscipit nisi, nec egestas neque venenatis quis.

Etiam vel sem nec lorem vestibulum gravida in a orci. Quisque vel orci id leo porttitor varius. Integer at turpis nulla, vitae accumsan magna. Nullam vehicula, tellus id aliquam faucibus, nunc lectus vehicula odio, non imperdiet lacus lacus a elit.

Adipiscing elit. Quisque bibendum, ligula ac tristique sagittis, dolor est laoreet nisi, ut iaculis metus.

My Projects

Name	Status
Application 1	Live
Application 2	Live
Application 3	Inactive
Application 4	Pending Approval
Application 5	In Development
View more...	

[Start a New Project](#)

Announcements

11/14/2009 - Developer Conference
The Elsevier Developer community is hosting a Developer Conference in New York on October 14, 2010.

11/10/2009 - Peer Reviewers Needed
Interested in becoming a peer reviewer to review upcoming applications?

11/8/2009 - IEEE Mashup Contest
IEEE is hosting a mashup contest in Berlin and is looking for participants.

How do I get started?

Learn about Elsevier APIs and Development Information

Conubia nostra, per inceptos himenaeos. Integer sagittis iaculis ligula eget facilisis. In hac habitasse

Connect with the Community of Developers

Conubia nostra, per inceptos himenaeos. Integer sagittis iaculis ligula eget facilisis. In hac habitasse.

24 New discussions!

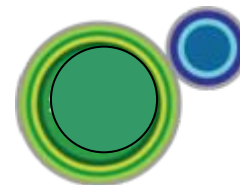
Get Started with the App Development Process

Conubia nostra, per inceptos himenaeos. Integer sagittis iaculis ligula eget facilisis. In hac habitasse.

- Access APIs and other developer resources to create and expose their Apps on the platform
- 利用应用程序接口和其它软件资源来开发及出版应用程序
- Collaborate with colleagues / researchers on forums
- 与相关同事及其他科研人员协作
- View highlights and notifications of upcoming events
- 查看追踪开发区的热点及相关活动的通告

Researchers will access applications tailored to their interests and work flow via the Application Marketplace

科研人员将从应用程序市场中各取所需，选取自己的应用程序





Applications

MetaSearch | ScienceDirect | Scopus | SciTopics | Applications

Mr: Berenson | Sign Out | Go to SciVal Suite

Library banner 234 x 60

Your library 

Home | Application Gallery | Profile | Developers
Help

My Apps (4)

Manage my apps



Gene View
CS
[Add to cart](#)



Project 21
SCIENCE
[Add to cart](#)



LIS ETI
SC-FTA
[Add to cart](#)



Opal-V
CS
[Add to cart](#)

This application has been provided to you by (institution or dept) or SciVerse.

Application Marketplace 应用程序市场

What are apps all about?

An Application (sometimes called an "App") is useful software that can enhance your experience on SciVerse. In many ways, you can think of an App as a website 'within' SciVerse's website. What makes them unique from other sites, though, is that Applications can work directly with Elsevier products like ScienceDirect and Scopus as well as the World Wide Web, all within one interface. This means you don't need to download software or create a new account with every Application you try out; simply add it to SciVerse, adjust settings as you like on it should run, and use it directly with your research work within seconds.

Various applications are available. They require no downloads, and go with you wherever you're signed into SciVerse. Some apps can be used on your SciVerse "home page" that you can go to directly, or you can access them anytime during searching with SciVerse.

[Browse all Applications](#) 浏览各种应用程序

Featured Applications

基因汇总

Gene View
★★★★★

Visualize genetic sequence data taken from the GenBank of NIH as found in articles and your search results...



[Get details](#)

蛋白质大全

Protein Explorer
★★★★★

View protein structures in results and articles. Two dimensional and three dimensional information of all proteins and their shapes...



[Get details](#)

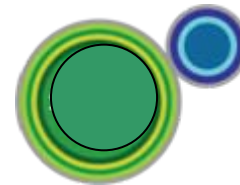
研究趋向

Research Trends
★★★★★

Review research trending for specific research to make informed decisions and deliver results, especially with grants requests...



[Get details](#)



Agenda

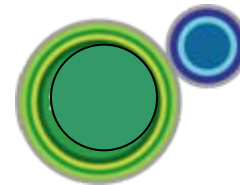
Search and Discovery Workflow Solutions

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Researcher feedback on the new platform

科研人员对新平台的评价



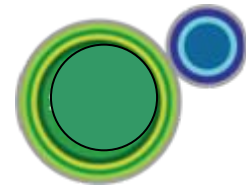
“Apps (interacting) with results are very important to help save time... apps integrated into article such as the pop-up example is also very interesting...”

“用于分析搜索结果的应用程序能节省很多时间... 帮助阅读文献的应用程序也很有意思...”

- Benefit from a constantly expanding universe of content and applications targeted to their specific interests and workflows
- 随着汇集，整合越来越多的各类信息和“个性化”应用程序，研究人员将收益于不断优化的知识发现服务平台

Librarian feedback on the new platform

图书馆员对新平台的评价



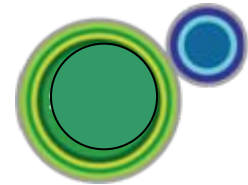
**“This is just amazing.
What faculty is really after is for something
that ties this altogether, so it’s all in one place.
This makes it really easy for them.”**

真好。教职员工都希望将各类搜索系统联系在一起，避免在做文献研究时换来换去。

- Add value for currently licensed content
使得已订购的文献变得更有价值
- Enable librarians to collaborate with clients to develop their own applications
使图书馆员能够和科研人员协同，研发本单位专用的应用程序
- Institutions can add their repositories to the platform, enrich their content with apps
研究单位也可以将其机构仓储与新的平台整合，利用专用的应用程序增加其使用价值

Developer feedback on the new platform

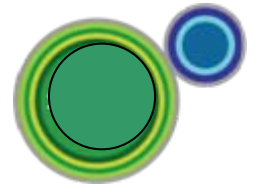
开发人员对新平台的评价



“Holy ** ... you are clearly aware of what the web really looks like, I’m very impressed with that. I haven’t seen anything so far that comes anywhere close to what you have done ...I would love to help out in any capacity...”**

“真没说的，你们对互联网的理解极为透彻，我还真没有在科研领域见过你们的应用程序市场，非常愿意参与你们的活动...”

- Unprecedented opportunity to accelerate science for up to 15 million researchers by developing applications on trusted ScienceDirect, Scopus content and web content
- 基于可信的学术信息资源和互联网内容，面向全球一千五百万科研人员开发个性化的应用程序，将是加速科学发现过程中前所未有的机遇



Thank You!
谢谢!



Allan Lu 鲁昕
Director, ScienceDirect