

# A new publishing ecosystem: It's applications

Rafael Sidi  
VP, Product Management, Elsevier



CHANGE

Come writers and critics who prophesize  
with your pen  
And keep your eyes wide, the chance  
wont come again  
And don't speak too soon for the wheels  
still in spin  
And there's no tellin' who that its namin',  
For the loser now will be later to win  
For the times they are a-changin'.

Bob Dylan, 1964

I DON'T WANT  
THE WORLD TO  
**CHANGE**  
BECAUSE I LIKE  
THE WAY IT IS



Platform

1

**“If at first the idea is not absurd, then there is no hope for it”**

**140**

# twitter



# twitter





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HeathrowAirport Heathrow Airport @polaroydbeats Thanks - no worries! 3 hours ago



HeathrowAirport Heathrow Airport @daveharper75 No problems with the airfield but your airline may be experiencing delays and cancellations so check first thing tomorrow! 4 hours ago



HeathrowAirport Heathrow Airport @toontje I guess they haven't made a decision yet. We've got our fingers crossed for you! 4 hours ago



HeathrowAirport Heathrow Airport @blamekay We'll do our best!



About @HeathrowAirport

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Following 17,133



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# PHILIPS VS 140 CHARACTERS OF GENIUS


**STEP 1** Want to win this TV?



(embalight) 21

**STEP 2** Have a look at this

**PHILIPS VS on YouTube**



**STEP 3** Think you can do better? Login to your Twitter account and Tell us your idea in 140 characters or less

twitter your ideas here ↓

#Philips\_vs

Twitter username:

Twitter password:

follow philips.us

no twitter account yet? [click here](#)

**SEND**

**STEP 4** it will appear here

twitter entries so far

Johnie\_Deannasy Hi allan did you evaluate this? <http://3.ly/7slot246e6> @mobent @NoLuckNeeded @billwickerman2 @Bobbitwholesale @PHILIPS\_VS

4 days ago from Mobile Web


JHouston89 Rooster vs. Philips sun lamp. Laughed out loud. Well done @Philips\_vs. <http://www.youtube.com/watch?v=71VG3tmnm2Y>

scroll

**STEP 5** If we think your idea is awesome we will make it & you'll be in with a chance to win the TV!

**PHILIPS VS on flickr**

PHILIPS VS waterscooter




## Twitter

### Twitter lacks 'clear long term vision' admits new CEO

Dick Costolo, Twitter's chief executive, has admitted that the microblogging company is currently lacking a clear long term vision.



Dick Costolo, formerly the chief operating officer of Twitter, took over as the company's chief executive officer last month. Photo: twitter



**By Emma Barnett, Digital Media Editor** 8:00AM GMT 26 Nov 2010

Comments

In his first UK interview since becoming Twitter's chief executive last month, Costolo, when asked for his long term vision of the company's purpose, replied: "I am working on clarity around that at the moment. I am currently trying to define what Twitter's purpose is in the long term. We will be able to be more specific on that answer in the near future."

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#### Twitter

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#### IN TECHNOLOGY



Twitpics from space



My 'Twitter row' with Stephen Fry

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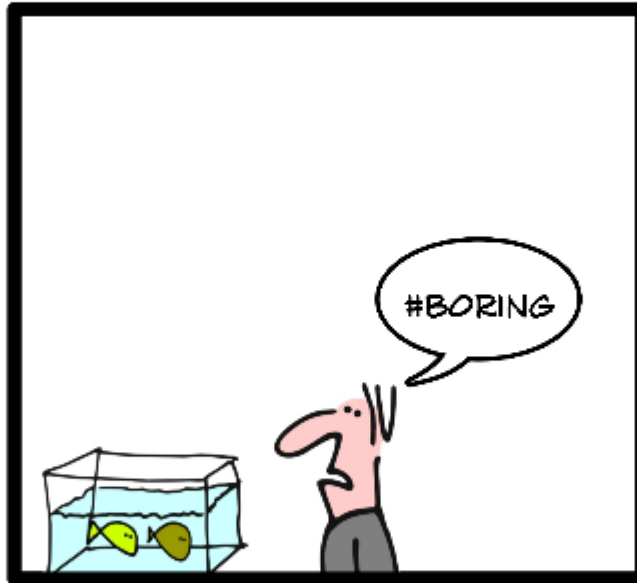
#### RECOMMENDED ON FACEBOOK

- WikiLeaks sparks worldwide diplomatic crisis**  
112 people shared this.
- Willie Nelson charged with cannabis possession**  
421 people shared this.
- Leslie Nielsen, star of The Naked Gun films, dies aged 84**  
167 people shared this.
- North Korea's undercover journalists reveal misery of life in dictatorship**  
658 people shared this.

Facebook social plugin

#### TECHNOLOGY MOST VIEWED

*geek & prke*



BEFORE THE INTERNET WAS BORN  
PEOPLE HAD TO TALK  
WITH THEIR FISHES

# Scientific publishing has a long history of innovation...

## journals

1999

### Brain Research

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Volume 824, Issue 1,  
3 April 1999

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- Fos expression in the cat brainstem after unilateral vestibular neurectomy**, *Pages 1-17*  
Sylvie Gustave Dit Duflo, Christian Gestreau, Brahim Tighilet and Michel Lacour  
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- Gold-thioglucose-induced hypothalamic lesions inhibit metabolic modulation of light-induced circadian phase shifts in mice**, *Pages 18-27*  
Etienne Challet, Daniel J. Bernard and Fred W. Turek  
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# Cell

Volume 143, Issue 1, 1 October 2010, Pages 69-70

doi:10.1016/j.cell.2010.09.002 | How to Cite or Link Using DOI

Permissions & Reprints

## Article

### Molecular Basis of RNA Polymerase III Transcription Repression by Maf1

Alessandro Vannini<sup>1,3</sup>, Rieke Ringel<sup>1,3</sup>, Anselm G. Kusser<sup>1,3</sup>, Otto Berninghausen<sup>1</sup>, George A. Kassavetis<sup>2</sup> and Patrick Cramer<sup>1</sup>

<sup>1</sup> Gene Center and Department of Biochemistry, Center for Integrated Protein Science Munich (CIPSM), Ludwig-Maximilians-Universität München, Feodor-Lynen-Strasse 25, 81377 Munich, Germany

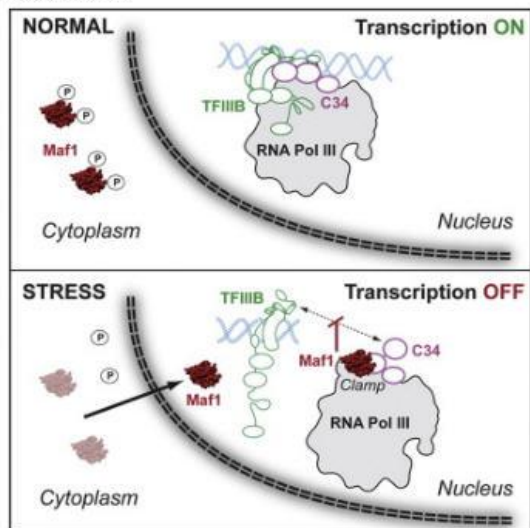
<sup>2</sup> Division of Biological Sciences, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0634, USA

Received 3 May 2010; revised 6 July 2010; accepted 11 August 2010. Published: September 30, 2010. Available online 30 September 2010.

## Summary

RNA polymerase III (Pol III) transcribes short RNAs required for cell growth. Under stress conditions, the conserved protein Maf1 rapidly represses Pol III transcription. We report the crystal structure of Maf1 and cryo-electron microscopic structures of Pol III, an active Pol III-DNA-RNA complex, and a repressive Pol III-Maf1 complex. Binding of DNA and RNA causes ordering of the Pol III-specific subcomplex C82/34/31 that is required for transcription initiation. Maf1 binds the Pol III clamp and rearranges C82/34/31 at the rim of the active center cleft. This impairs recruitment of Pol III to a complex of promoter DNA with the initiation factors Brf1 and TBP and thus prevents closed complex formation. Maf1 does however not impair binding of a DNA-RNA scaffold and RNA synthesis. These results explain how Maf1 specifically represses transcription initiation from Pol III promoters and indicate that Maf1 also prevents reinitiation by binding Pol III during transcription elongation.

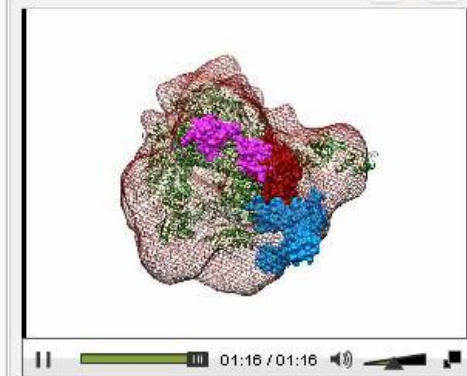
## Graphical Abstract



High-quality image (344K)

ELSEVIER

Video (1) | Other Files (1)



Movie S1. Related to Figure 1, 2, 3, and 4. Cryo-EM volumes and X-ray structures fitting cryo-EM maps of Pol III

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## Related Articles

- Integration of nutritional and stress signaling pathway... *Trends in Biochemical Sciences*
- General Repression of RNA Polymerase III Transcription ... *Molecular Cell*
- Transcription: Adjusting to Adversity by Regulating RNA... *Current Biology*
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quantifind

quantifind is an analytics tool that finds the most significant data in your search results and allows









COMING UP NEXT: THE EBOOK GENERATION

OCTOBER 13, 2009



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# TIME

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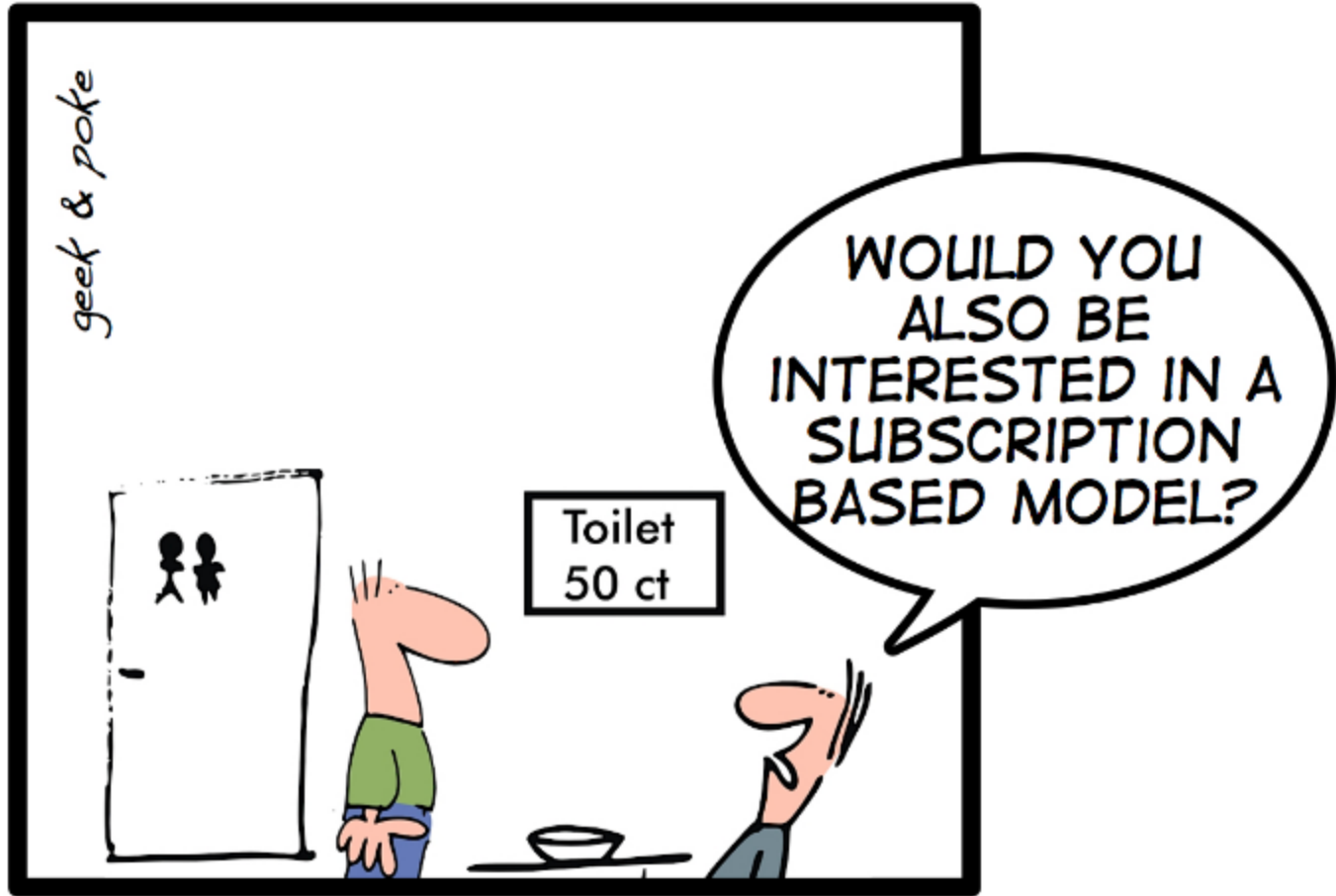
www.time.com

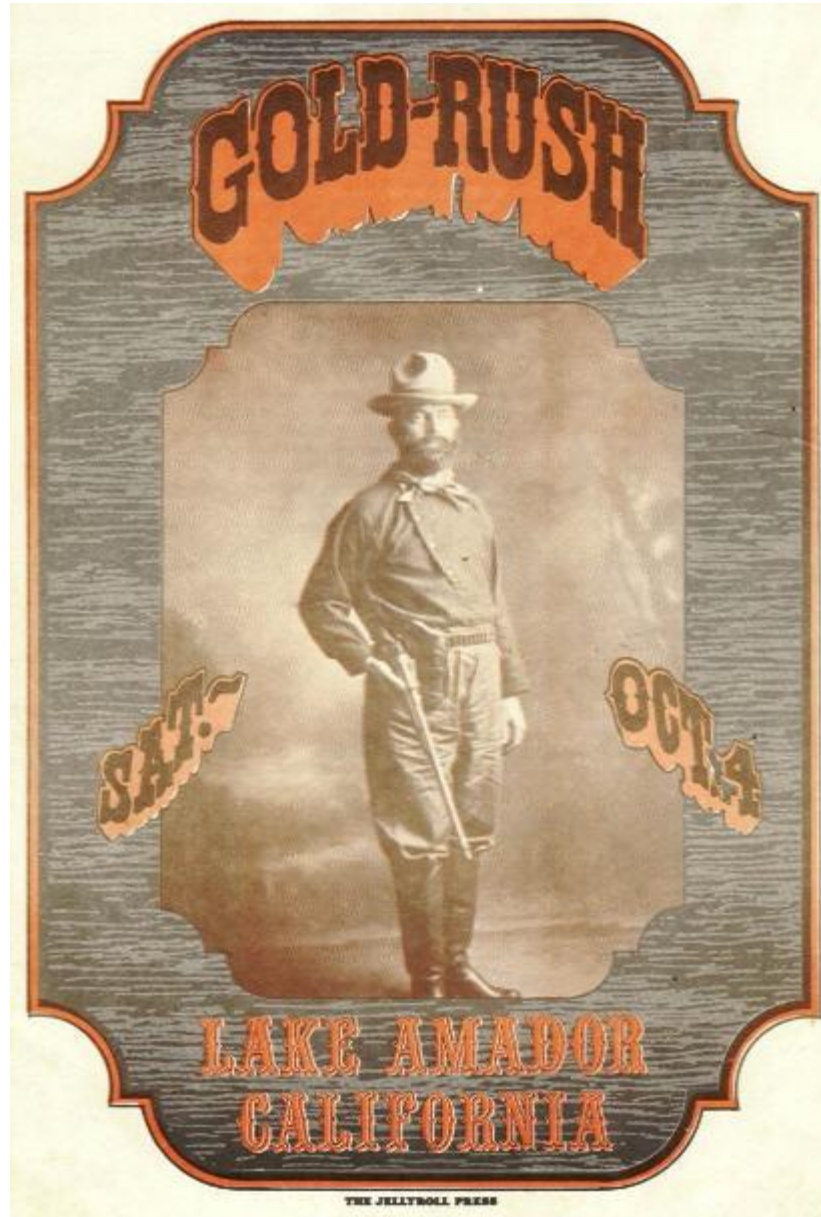


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 APPS FOR  
**Californians**

 Apps for Californians

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*The great data gold rush*

About

**Stake your claim and demonstrate the power of innovation to make government better.**

The Center for Digital Government, in collaboration with the State of California, City of Los Angeles, the County of Los Angeles, the City and County of San Francisco, Google, Microsoft and ProgrammableWeb.com, announced the launch of Apps for Californians - a web application development contest focused on enhancing government transparency and services.

Through Apps for Californians, application developers will be able to leverage public data sets made available by the state and local governments within California to develop innovative applications, visualizations and mash-ups that empower residents and businesses with improved access to government information and services and promote collaboration between the state, local governments and non-governmental partners.

With more than 400 data sources and 100 million records currently online, the State of California has made vast amounts of public data relating to all facets of state government including: budget, finance, income, land use, highway traffic, health statistics, education, labor and more. We are looking for developers to take this data and transform it into something useful for citizens and businesses. Mashups that we can't even begin to foresee will help add richness to our data, and create new services that benefit the public good.

The State of California, and ProgrammableWeb.com help give you the resources you need to

 Data Gold Rush

- About
- Contest Rules
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# The World Is Flat

A BRIEF HISTORY OF  
THE TWENTY-FIRST CENTURY

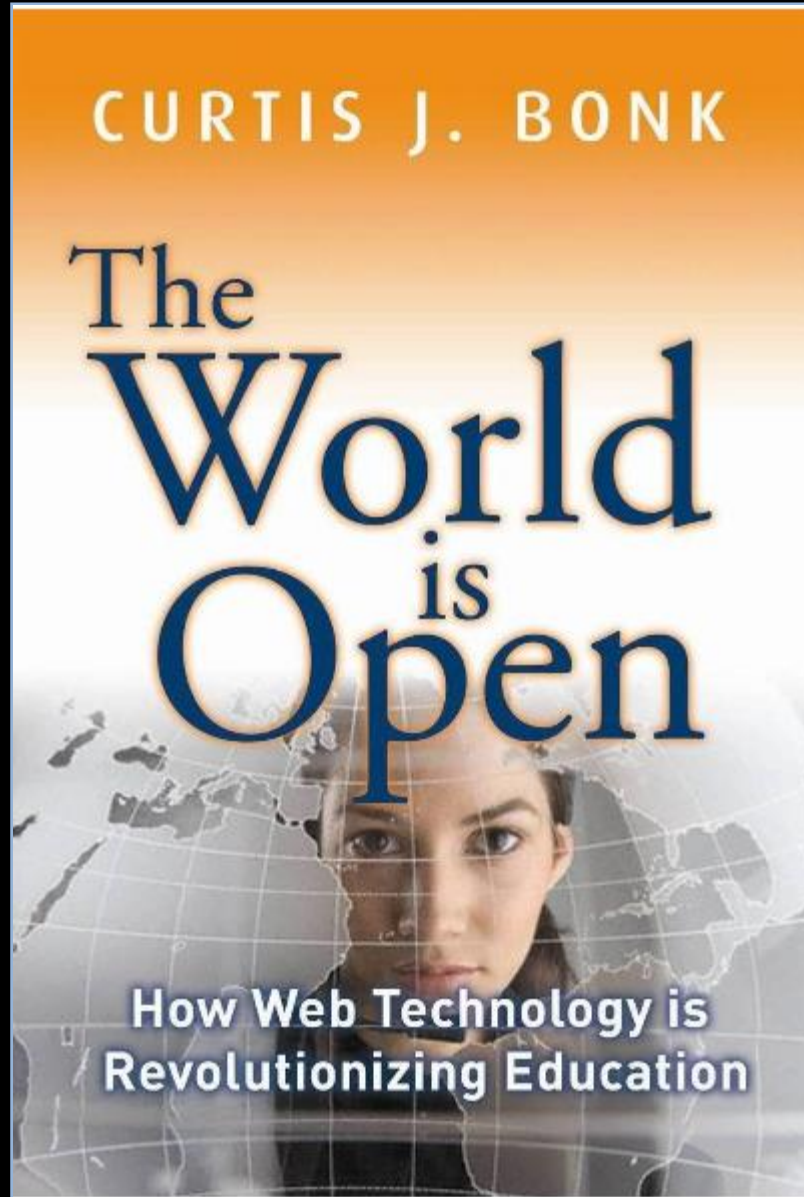
Thomas L. Friedman



CURTIS J. BONK

The  
World  
is  
Open

How Web Technology is  
Revolutionizing Education



# Open platform beats close



“.....we recognize that the Web itself is evolving into a ***data platform*** and how important it is to ***link data*** from one agency to another or one country to another. True value lies at the ***intersection of multiple datasets*** and what we are witnessing is a continued movement across the world to democratize data, but more importantly the ***explosion of applications*** created by the emergence of a ***community of innovators.***”

Vivek Kundra, May 21<sup>st</sup>, 2010  
U.S. Chief Information Officer



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# Open Government Initiative

TRANSPARENCY + PARTICIPATION + COLLABORATION

**OPEN GOV**

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My Administration is committed to creating an unprecedented level of openness in Government. We will work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our democracy and promote efficiency and effectiveness in Government.

— PRESIDENT OBAMA, 01/21/09





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4. Latest Volumes of Foreign Relations of the...
5. Uniform Tire Quality Grading System (UTQGS)

### SEARCH OUR CATALOGS

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### APPS



### COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. The data is being surfaced from many locations making the Government data stores available to

### SEMANTIC WEB

As the Web of linked documents evolves to include the Web of linked data, we're



"We must tap into your expertise and your knowledge because making our country healthier, preventing disease, and improving services for children and families will take all of us working together."

- Secretary Sebelius

# DATA STORE

## WORLD GOVERNMENT DATA

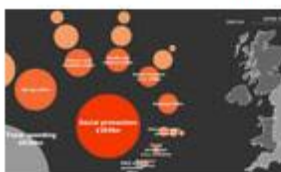
### Featured datasets

#### Watch London's traffic



Live traffic camera feed provides images from 177 cameras at key sites across the Capital, showing what's happening on London's streets

#### Coins: the Combined Online Information System



The ultimate public spending database from the UK government

#### California's budget data



Find out just how serious California's financial crisis is

#### Toronto: the ultimate map



Linear representations of streets, walkways, rivers, railways, highways and administrative boundaries within the City of Toronto

### Browse by

#### Countries

[Australia \(121\)](#)

National: [data.australia.gov.au](#)

New South Wales: [data.nsw.org.au](#)

[Canada \(949\)](#)

British Columbia: [data.gov.bc.ca](#)

Edmonton: [data.edmonton.ca](#)

Mississauga: [mississauga.ca](#)

Nanaimo: [nanaimo.ca](#)

Ottawa: [ottawa.ca](#)

Toronto: [www.toronto.ca](#)

Vancouver: [data.vancouver.ca](#)

[New Zealand \(270\)](#)

National: [data.govt.nz](#)

[Spain \(1500\)](#)

Basque Country (in Spanish): [opendata.euskadi.net](#)

[United Kingdom \(5946\)](#)



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[www.UKcensusOnline.com](http://www.UKcensusOnline.com)

#### Complete Census Online

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## Apps for America 2: The Data.gov Challenge

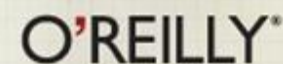
### What it Is

Apps for America is a special contest we're putting on this year to celebrate the release of [Data.gov](#)! We're doing it alongside [Google](#), [O'Reilly Media](#), and [TechWeb](#) and the winners will be announced at the [Gov 2.0 Expo Showcase](#) in Washington, DC at the end of the Summer.

### Why we're doing it

Just as the federal government begins to provide data in Web developer-friendly formats, we're organizing Apps for America 2: The Data.gov Challenge to demonstrate that when government makes data available, it makes itself more accountable and creates more trust and opportunity in its actions. The contest submissions will also show the creativity of developers in designing compelling applications that provide easy access and understanding for the public, while also showing how open data can save the government tens of millions of dollars by engaging the development community in application development at far cheaper rates than traditional government contractors.

### Sponsors



Craig Newmark





# thecollaborationproject

an independent community powered by the **national academy of public administration**

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Cuba, Cuba, FBI, HAWAII, King  
Presidential candidates Obama, McCain demand that Cuba release political prisoners  
18 minutes ago Associated Press NewsWire

East Timor - 3 hours ago  
harta, Rama, East Timor, Remade, DLI  
I'm innocent, pleads Timor suspect  
3 hours ago The Age

Birmingham, United Kingdom - 4 hours ago  
breaching, alan, yin, BIRMINGHAM, yin  
Extremist who plotted to behead soldier jailed for life  
4 hours ago The Australian

Ask not what your country can do for you;  
**Ask what we can do together.**

The Collaboration Project is an independent forum of leaders committed to leveraging the interactive web and the benefits of collaborative technology to solve government's complex problems. Powered by the **National Academy of Public Administration**, this "wikified" space is designed to share ideas, examples and insights on the adoption of Web 2.0 technologies in the field of public governance. [\[LEARN MORE\]](#)

Images courtesy of PIM

## New Cases in Collaboration

**Connect and Collaborate with NASA** — Utilizing Web 2.0 media tools NASA created a website site to connect

## Featured Video

Homeland Security Secretary Janet Napolitano on the **National Dialogue**



## News

**GSA's "Government By Collaboration" Newsletter now Available** – This edition presents 22 trendsetting technology projects of nations, states, federal agencies, and municipalities and thought leaders who are working to ensure openness in Government. [\(PDF File\)](#)

**Federal Agencies Create 23 Open Gov Sites** – 23 Federal agencies have just created new open government websites to engage the public and discuss open government initiatives. [Learn more and check them out today!](#)

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## Popular Topics

case\_study federal wiki



# Apps for Democracy

## Community Edition

for the

ADRIAN M. FENTY, MAYOR  
CHRIS WILLEY, INTERIM CTO  
District of Columbia  
Office of the Chief Technology Officer

*Got what it takes to mash-up DC's data to win some cash and tons of street cred?*

*Then sign-up for Apps for Democracy and start coding here!*

**Interested in launching your own Apps for Democracy inspired initiative? You're in luck! We've prepared a detailed guide showing you how to create one. [Download the PDF here.](#)**



**What:** *The first edition of Apps for Democracy yielded 47 web, iPhone and Facebook apps in 30 days - a \$2,300,000 value to the city at a cost of \$50,000 ([all apps created are here](#)). Our mission with "Community Edition" is two fold: to engage the populace of Washington, DC to ask for their input into the problems and ideas they have that can be addressed with technology and then to build the best community platform for submitting 311 service requests to the city. [Submit your ideas and problems here!](#)*

*Armed with insights from all corners of DC, we'll hold an innovation contest with \$34,000 in potential prizes! [Sign up to Build Apps for Democracy!](#)*

## Two ways to identify an unknown pill



**Quick Search**  
(rapid identification, sort pills  
by color, shape, etc.)



**Advanced Search**  
(includes searching by drug name,  
inactive ingredients, and more)

### What?

Pillbox enables rapid identification of unknown solid-dosage medications (tablets/capsules) based on physical characteristics and high-resolution images.

Once a medication is identified, Pillbox provides links to drug information and drug labels.

### How?

The National Library of Medicine is partnering with the Food and Drug Administration to enhance patient safety by providing an identification and reference system for solid-dosage medications.

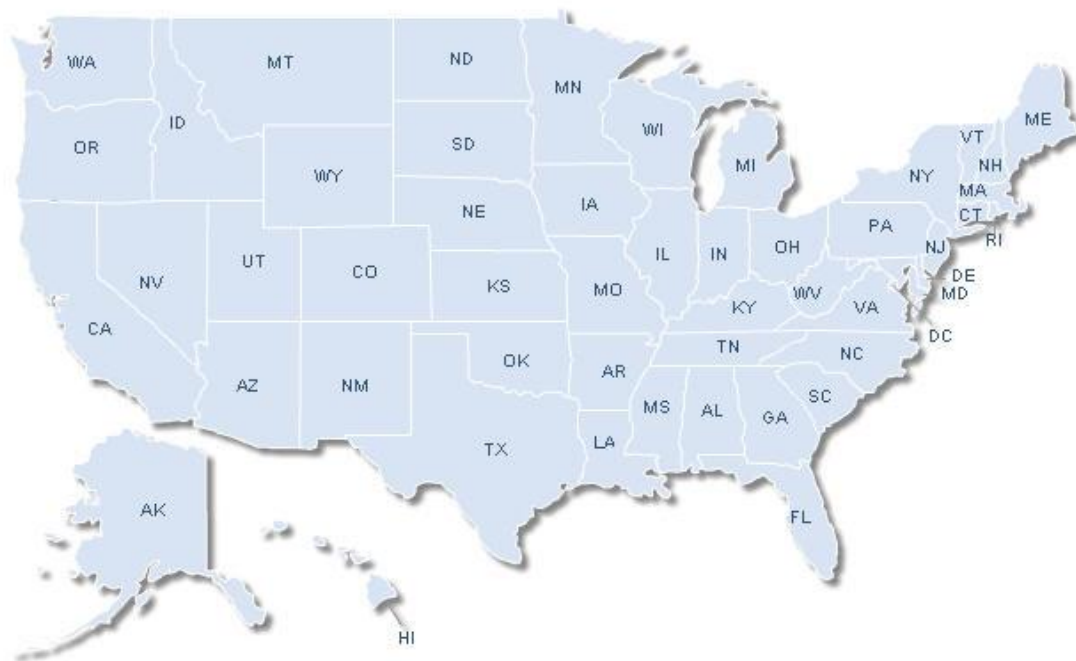
Pillbox's data and search engine are also accessible through an API.

Health Outcomes

Health Factors

Take Action



### Find Health Rankings

By County:

-- OR --

By State:

#### Spread the Word

Share this site. Let others know how they can help.

#### Find us on



#### Stay Updated

Zip Code:



## Demos

This wiki currently hosts **47** demos. This page lists 32 demos. Additional demos can be found at [Even More Demos](#) and [Labs](#), but these may be under development or out-dated, they remain available for pedagogical purposes.

*Note that some demos may have display problems under Internet Explorer.*

### navigation

- Main Page
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### linked data catalog

- Data.gov catalog(all)
- Data.gov catalog (ogd)
- Non-Data.gov catalog

### maintenance

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- Recent changes
- Random Page

### internal pages

- Internal
- Internal meetings

### search




### toolbox

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

### Demo: Broadband Internet Use versus Total Internet Use - United States Households, 2009



- **Description:** This demo shows the percentage of households in each state with broadband out of the total number of households with internet access. This is based on the division of broadband internet use in rural and urban areas as well as dial-up use in rural and urban areas.
- **Live Demo(s):** [1] [↗](#)
- **Dataset(s):** [Dataset 10040](#)
- **Technology Used:** [RDF](#), [SPARQL](#), [SparqlProxy](#), [Google Visualization API](#)
- **Creator(s):** [Peter Coons](#)

### Demo: Clean Air Status and Trends - Ozone



- **Description:** This demo shows a map of the U.S. depicting the Clean Air Status and Trends Network (CASTNET) Ozone monitoring stations and their average Ozone level. Clicking a station shows more detailed information and a link to a graphical representation of the time-series of measurements.
- **Live Demo(s):** [2] [↗](#)
- **Dataset(s):** [Dataset 8](#), [Dataset 9](#), [Dataset 10001](#)
- **Technology Used:** [RDF](#), [SPARQL](#), [SparqlProxy](#), [Google Visualization API](#), [Simile Exhibit](#), [Google Visualization Annotated Timeline](#)
- **Creator(s):** [Dominic DiFranzo](#), [Li Ding](#)

### Demo: Comparing Types of Campaign Money by State



- **Description:** Compare the disbursements, receipts, and loans of Democratic and Republican candidates by state. See how these variables are or aren't correlated.
- **Live Demo(s):** [3] [↗](#)
- **Dataset(s):** [Dataset 1930](#), [Dataset 10011](#)
- **Technology Used:** [RDF](#), [SPARQL](#), [SparqlProxy](#), [Google Visualization API](#), [TDB Triple Store](#), [State Variable Comparison JS API](#)
- **Creator(s):** [Sarah Magidson](#)

### Demo: Comparing US-USAID and UK-DFID Global Foreign Aid



- **Description:** This application presents a mashup of foreign aid data (represented in US Dollars) from the United States Agency for International Development (USAID) and UK Department for International Development (DFID) for the 2007 US Fiscal Year.
- **Live Demo(s):** [4] [↗](#)
- **Dataset(s):** [Dataset 1554](#), [Dataset 10030](#), [DBpedia](#)
- **Technology Used:** [RDF](#), [SPARQL](#), [SparqlProxy](#), [Google Web Toolkit](#), [Google Visualization API](#), [Google Visualization GeoMap](#), [Google Visualization Pie Chart](#), [How to use New York Times Article Search API](#)

# Key trends defining the future



**Openness &  
Interoperability**



**Personalization**



**Collaboration &  
Trusted Views**

# Openness and Interoperability

salesforce.com

GOV 2.0

BBC

facebook

twitter

## “Give me your data, my way”

Access to APIs and creating an ecosystem that helps to

- facilitate data accessibility
- drive innovation
- extend the reach of content
- build strong developer network
- increase core base of users
- develop new applications

# Researchers need better search & discovery solutions



“My dream would be a “portal” that has all protein information interlinked with scientific literature and protocols and kits”

- Give me your data, my way
  - Make it faster to search more places
- Provide more tools specific to my needs





Hot APIs » [Twitter](#) [YouTube](#) [Facebook](#) [Google Maps](#) [Flickr](#) [LinkedIn](#) [More »](#)

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2421  
APIs

5406  
Mashups

### New APIs

- [Idescat Rectifications](#)
- [Preona Readability](#)
- [Wishpond](#)
- [APInbox](#)
- [Idescat Municipality in Figures](#)
- [Cevir Turkish-English Dictionary](#)
- [See more APIs](#)

### Mashup of the Day



▸ [See previous winners](#)

### New Mashups

- [surf2gether.com](#)
- [Why Do They Tweet](#)
- [Find the Bus](#)
- [Instant Map Search](#)
- [Naturized Spots](#)
- [InstaLover](#)
- [See more mashups](#)

**MASHERY**  
The Premier API Management Solution

When your social app explodes, make sure your cloud host can handle it.

Joyent

**Cloudstock**  
The Woodstock for Cloud Developers  
Register for... **SOLD OUT!**

Latest News: December 2, 2010

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## Netflix Gains Significantly by Moving its API to the Cloud

Organizations continue to grapple with making a choice between building their own data center or using a public cloud infrastructure. It sure helps to learn about successful case studies of mainstream companies making a successful move to the cloud. [Netflix](#), with a



Develop native apps at the speed of web

OPEN PLUG

# API Billionaires Club



5 billion API calls / day *(April 2010)*



5 billion API calls / day *(October 2009)*



3 billion API calls / day, 75% of all traffic *(April 2010)*



8 billion API calls / month *(Q3 2009)*



3 billion API calls / month *(March 2009)*



1.1 billion API-delivered stories / month *(March 2010)*



Over 50% of all traffic via API *(March 2008)*



Over 100 billion objects stored in S3 *(March 2010)*

# OPEN PLATFORM

Build applications with **theguardian**



## Case studies

The screenshot displays the 'What could I Cook?' search interface. It features a search bar with filters for ingredients (e.g., lemons, sugar) and a 'Go' button. Below the search bar, it shows the number of recipes found (341) and a list of results. The first result is 'Grilled fennel with beef tomatoes, fresh mozzarella and salmonella' with a date of 24 August 2008. The second result is 'Whole lemon sole with teriyaki sauce' with 4 ingredients. The interface is clean and user-friendly, with clear navigation and search options.

## Recipe Search

The recipe search engine from [WhatCouldICook.com](http://WhatCouldICook.com) is now also running on [guardian.co.uk](http://guardian.co.uk). Learn about how it works and what kinds of commercial possibilities the case study demonstrates.

## Try it now

### Get a key

[Getting started guide](#)

[API Explorer](#)

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[Project Activate - Ushahidi comes to town](#)

# OPEN PLATFORM

Build applications with **theguardian**

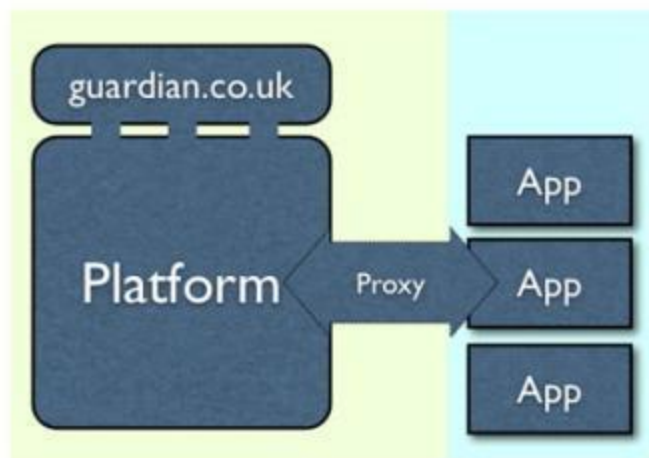
## What is the MicroApp framework?

Integrate applications directly within the Guardian network.

guardian.co.uk, Thursday 20 May 2010 07.25 BST



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## All the Code That's Fit to `printf()`

November 29, 2010, 5:23 PM

[Campaign Finance API Updates](#) | We've made a few tweaks and additions to the [Campaign Finance API](#):

- Two new request types are available: [New Candidates](#) and [New Committees](#). These return the 20 most recently added candidates/committees for the current campaign cycle.
- [Candidate details](#) and [committee details](#) now include `total_receipts` (dollar value).
- In [state candidate requests](#) for House candidates, the `district` parameter is now optional rather than required. (If you omit it, you'll get all House candidates for the specified state.)

These updates are available now. For more details, read the [documentation](#).

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# TESCO API

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you have 13 messages, 13 are new.

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My Messages [13]

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Technology For Tesco.com

### ▼ Tesco.com Innovation

	<p><b>API Reference Documentation</b> Documents to help you both use and get the best out of the API service <b>Last post:</b> Mobile Device Checkout S... by Nick Lansley on August 06, 2010, 01:59:39 pm</p>	2 Posts	2 Topics
	<p><b>Latest News</b> The latest news and about the Tesco API and this forum will appear here. <b>Last post:</b> Large API code update to... by Nick Lansley on May 11, 2010, 04:46:01 pm</p>	41 Posts	41 Topics
	<p><b>Design and Insight</b> Here is where you can find out what customers are asking for in terms of the design of applications - and contribute design ideas yourself for peer review. Join this forum as a member and here you can read details of the six "Challenge Briefs": areas of insight given to us by our customers. <b>Last post:</b> Re: interactive customer... by Angela on October 30, 2010, 12:29:52 pm</p>	21 Posts	8 Topics
	<p><b>Child Boards:</b> Challenge Brief: How to help customers to shop more quickly and easily, Challenge Brief: How to make on-line shopping better than the in-store experience, Challenge Brief: How to help customers spend less on their weekly shop?, Challenge Brief: Harnessing mobile and emerging technologies, Challenge Brief: How to give customers inspiration for their weekly shop, Challenge Brief: How to harness the power of social networking</p>		
	<p><b>Tesco.com Innovation Online</b> What ideas do you have that would make grocery home shopping online more interesting?</p>	100	22

# Welcome to the Sears Developer Center

## Providing support for the API Development Community

This portal is intended for you, developers! The **Sears Developer Network** is your gateway to the **Sears Open API Platform**. This platform provides access to all the Sears Holdings' store fronts i.e Sears, Kmart and MyGofer. You can get information on product catalog, full product information including pricing, availability, specifications, descriptions and image URLs by invoking APIs.

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### Explore

#### Explore Our APIs

You can also learn about our products and how to use the APIs to create your own applications. You can embed Sears products wherever you want in your websites.



### Register

#### Register for an Account

Sign up and we will provide you an API key to access these APIs.



### API Key

#### Get Started

You will need a unique name for your application or site. Your API Key(s) give you access to the API resources within sears.

#### Current Forum Topics

- How do I get a Key?
- Orders from Sears
- product listing APIs?
- HTML
- How to get all products...  
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### Welcome developers!

NJ TRANSIT encourages the use of our schedule data to improve customer access to information through new and innovative applications.

We've created a simple registration process that enables developers to review and agree to our License Agreement and download schedule data in GTFS format. Once you register, downloading updated files is as simple as typing your User ID and password. We'll even notify you via email when updates are made to the data, so you can keep your application up to date.

Please keep the following guidelines in mind when using our GTFS data:

- **You have an obligation to keep schedule information up to date.** Our customers depend on accurate information. Outdated schedules can mean missed trains and buses, or poorly timed connections. We require developers to update their data within 3 business days of a new file becoming available.
- **You're not allowed to use NJ TRANSIT logos or other intellectual property.** While the schedule data is provided free for your use, our logo and other registered service marks and trademarks remain the property of NJ TRANSIT. If you're interested in entering into a formal partner license agreement, please contact us with your request.

### Developer Login

User ID:

Password:

[Forgot Your Password?](#)



## API Documentation

[Code example](#) | [Quick Reference](#)

Your API License Code is: fe5a75993

### Simple API

Our simple API is just that, simple. Its meant to provide a quick way to edit images and send the newly edited file's information back to your server. We've included a detailed explanation of how it works right here and placed a [quick reference](#) toward the bottom of the page. We've also included some [sample code](#) to help you get started.

There are 2 (simple) steps to implement this API:

#### Step 1: Launching the Apps

Launching the tools is as simple as opening a new browser window and pointing it to this url:



#### Table of Contents

[Simple API](#)  
[Simple API Summary](#)  
[Advanced API](#)

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*SOME QUESTIONS WOULD HAVE  
SOUNDED WEIRD 30 YEARS AGO*

# business|bytes|genes|molecules

ruminations on science, data and computing by Deepak Singh

About

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## The dev button

By DEEPAK SINGH | Published: APRIL 24, 2010




Then you have life science sites and by and large that's missing (The [PDB](#) is a welcome [exception](#)). The point I am trying to make is a simple one. Our resources should treat and expect smart developers (folks like [Pierre](#), [Neil](#) and [Rajarshi](#)) to be first class citizens of the ecosystems. Maybe I am not giving sites enough credit, but it should be the first thing we look for on a website; is there a link in the header or footer for "API" or "developers?"; "Do we have a dev button?"



## CODE4LIB Archives

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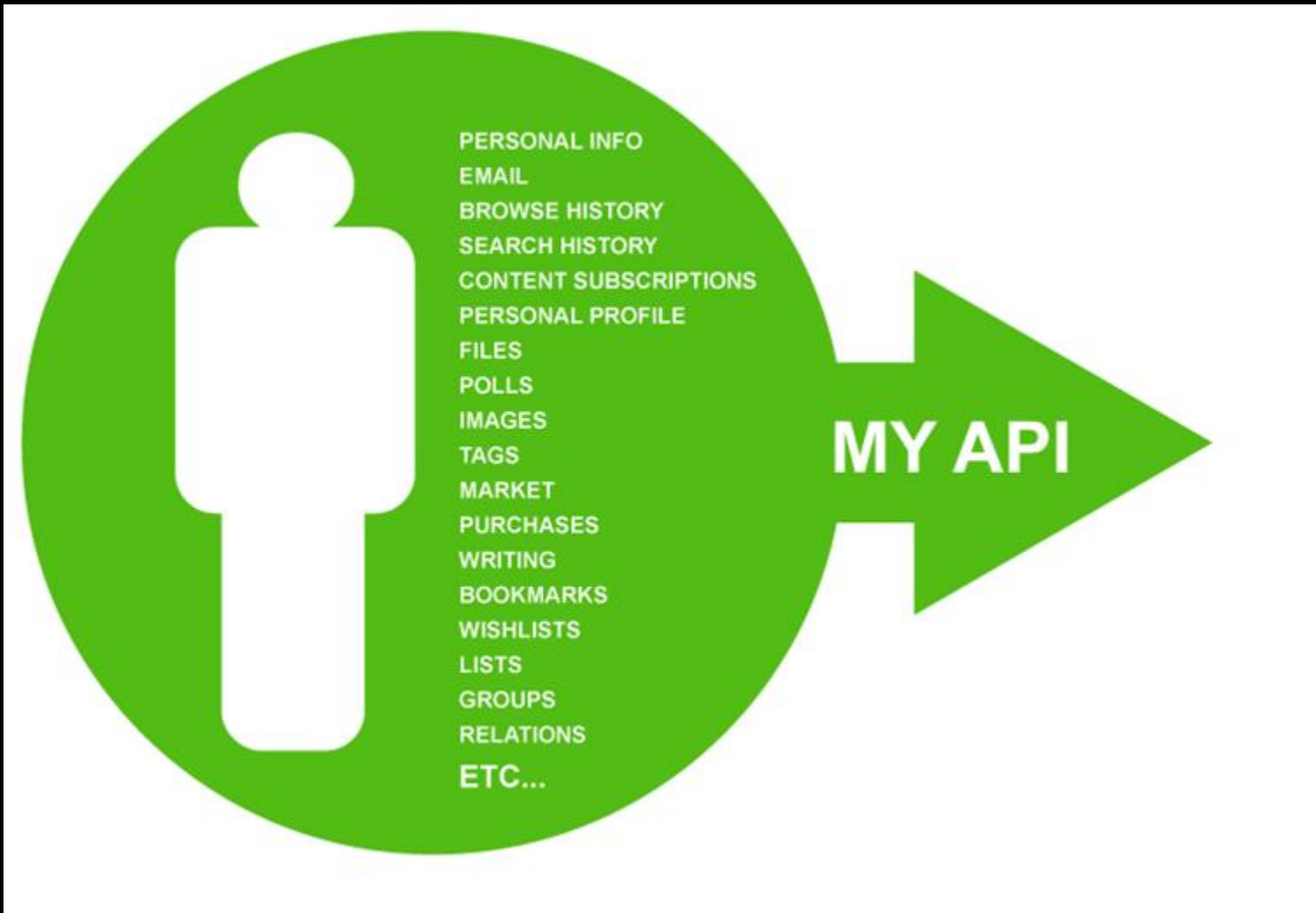
**Subject:** Job posting: Digital Library Application Developer, Princeton Theological Seminary  
**From:** Christine Schwartz <[\[log in to unmask\]](#)>  
**Reply-To:** Code for Libraries <[\[log in to unmask\]](#)>  
**Date:** Mon, 5 Apr 2010 13:02:55 -0400  
**Content-Type:** text/plain  
**Parts/Attachments:**  [text/plain](#) (15 lines)

Princeton Theological Seminary Library is seeking a Digital Library Application Developer to join a small team of content and technical specialists building web-based digital collections of religious texts. The position reports to the Curator of Special Collections and is primarily responsible for developing XML-based applications in XQuery and XSLT on a MarkLogic Content Server.

For more information: <http://jobs.37signals.com/jobs/6517>

Christine Schwartz  
Metadata Librarian  
Princeton Theological Seminary Libraries

# Is API in your DNA?



REMIX





# Personalization

The Amazon.com logo, featuring the text "amazon.com" in a black sans-serif font with a small orange arrow pointing from the 'a' to the 'z'.The Netflix logo, consisting of the word "NETFLIX" in white, bold, uppercase letters on a red rectangular background.The last.fm logo, with "last.fm" in a red, lowercase, sans-serif font and "the social music revolution" in a smaller, black, lowercase font below it.

**“Know who I am and what I want”**

Deliver recommendations based on behavior and what might be of interest to them

# Researchers need personalization



“It would be useful to have a system that knows what I have downloaded in the past and provides suggestions of related articles by author and subject...”

- Know what I’m interested in and provide me with recommendations

# Collaboration & trusted views



**“The right contacts at the right time”**

Provide a professional networking platform for research scientists

**Collexis**

# Researchers need trusted views and collaboration



“It would be helpful to have a social filter or ability to stream within the community on top of the literature in order to stay up to date...”

- Too much information... I need to filter content through people I trust and can talk to
- Connect with experts on new trends, collaborate on projects and find funding

# Research more exciting but also more challenging

Q

How many hours per week searching and gathering information?

A

6.5

Q

How many hours per week organizing, analyzing and applying information?

A

5.8

**Researchers spend more time looking for information than analyzing and applying it.**

“It is quite depressive to think that we are spending millions in grants for people to perform experiments, produce new knowledge, hide this knowledge in an often badly written text and then spend some more millions trying to second guess what the authors really did and found”

**A.Bairoch, 2009**











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# Information Overload Is Nothing New

By PEGGY NOONAN



*From the Roman Empire to the BlackBerry jam.*

Article

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It's high summer and we're all out there seeing each other. We're not hidden away in our homes and offices as we are in winter's cold. We're part of a crowd—on the street, in the park, on the boardwalk, on the top deck of the ferry to Saltair. And we can see in some new or clearer ways how technology is changing us.

For one thing, it is changing our posture. People who used to walk along the avenues of New York staring alertly ahead, or looking up, now walk along with their heads down, shoulders

## LATEST VIDEOS MARKETS & BUSINESS



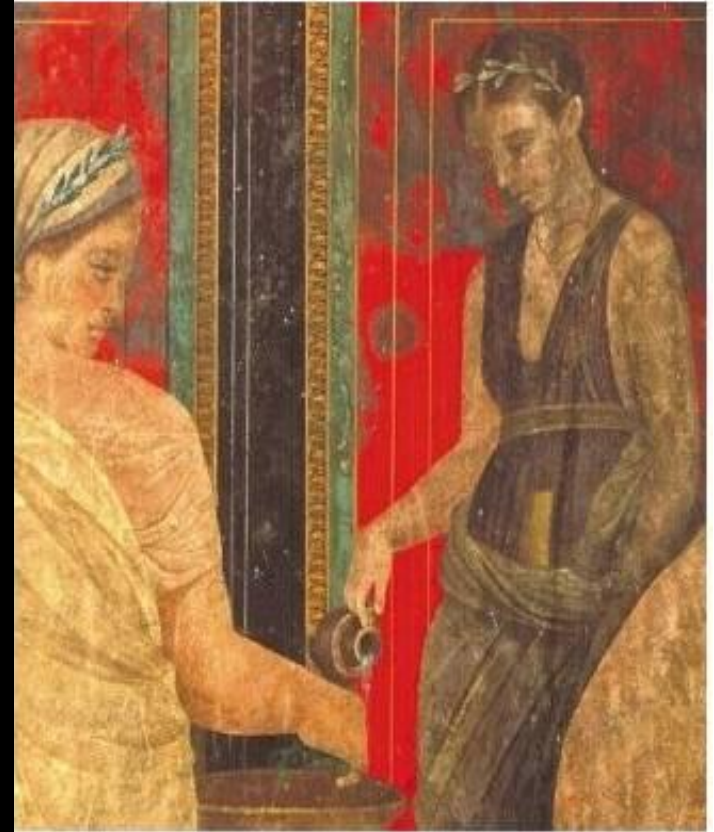
Will Obama's Plan Cover Illegal ... Thu, Sep 10, 2009 - 11:05 PM



Selling Luxury Goods in the Age ... Thu, Sep 10, 2009 - 10:52 PM

“What is the point of having countless books and libraries whose titles the owner could scarcely read through in his whole lifetime. The mass of books burdens the student without instructing him, and it is far *better to devote yourself to a few authors to get lost among many*”

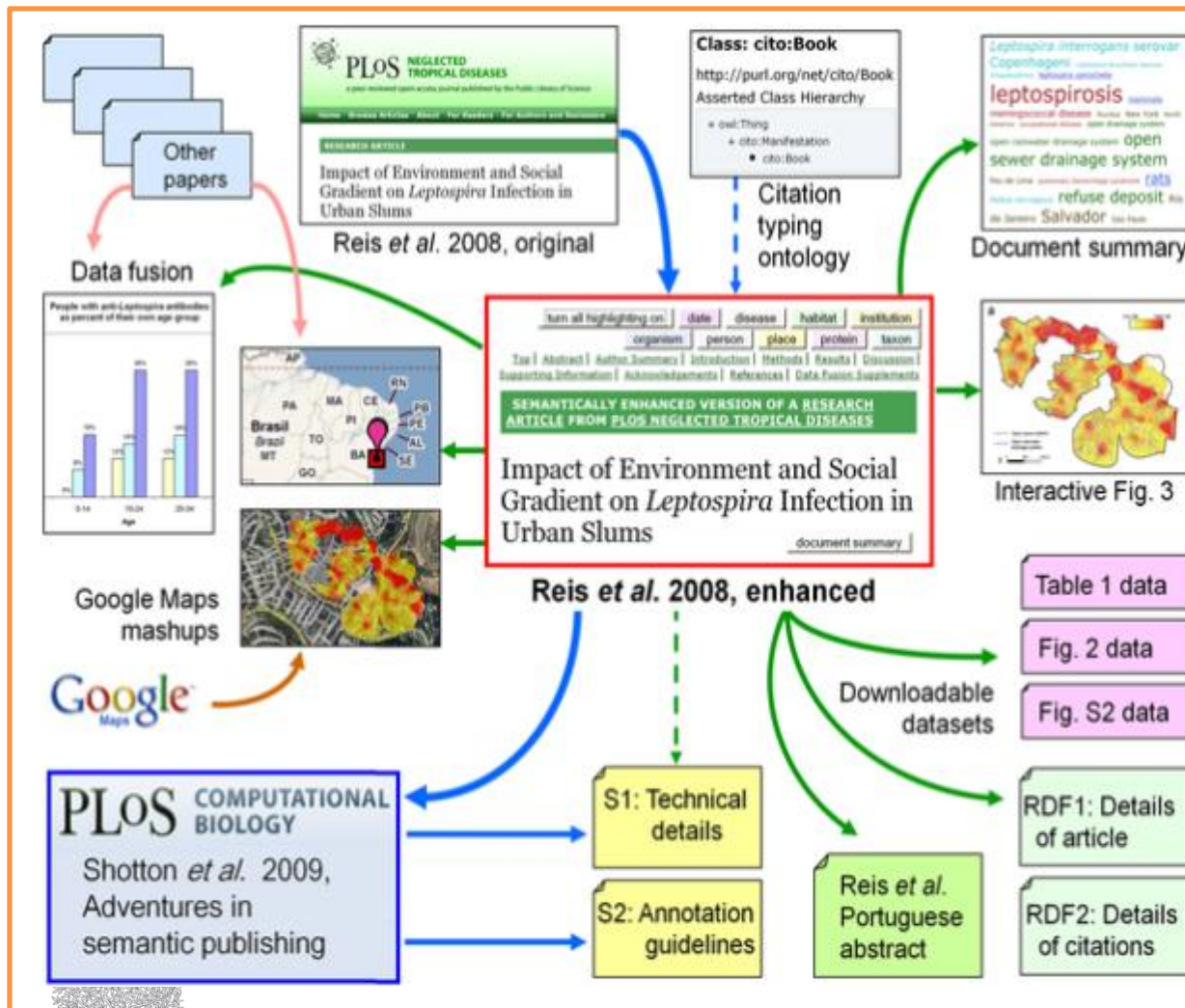
**Seneca** (4 BC-65 CE)



# Technology continues to drive change



# The future of scientific research?



**“Scientific innovation depends on finding, integrating, and re-using the products of previous research... Our semantic enhancements led to the creation of a whole “ecosystem” of articles, documents, spreadsheets, data fusions related to that original work...frictionless interoperability between papers and datasets is highly desirable.”**

- Shotton D. et al, Adventures in Semantic Publishing: Exemplar Semantic Enhancements of a Research Article. *PLoS Comput Biol* 5(4)

# Start of a new journey



**71** entries

**10** finalists

**3** winners



**1<sup>st</sup> Prize Winners- "Reflect" by European Molecular Biology Lab**

# Reflect App

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## Abstract

References (297)

### Radiotherapy and Oncology

Volume 40, Issue 3, September 1996, Pages 197-223

doi:10.1016/0167-8140(96)01806-3 | How to Cite or Link Using DOI

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### Review article

## The p53 gene as a modifier of intrinsic radiosensitivity: implications for radiotherapy

Robert G. Bristow<sup>a, b, \*</sup>, Samuel Benchimol<sup>b</sup> and Richard P. Hill<sup>b, a</sup>

<sup>a</sup> Department of Radiation Oncology, University of Toronto, and the Ontario Cancer Institute, Toronto, Ontario, Canada

<sup>b</sup> Department of Medical Biophysics, University of Toronto, and the Ontario Cancer Institute, Toronto, Ontario, Canada

Received 17 April 1996; Revised 26 June 1996; accepted 30 June 1996. Available online 15 August 1996

### Abstract






**Background and purpose:** Experimental studies have implicated the normal function of the p53 gene as a modifier of intrinsic radiosensitivity to other DNA damaging agents. Whether altered WTp53 protein function can predict for human tumour radiocurability and normal tissue toxicity remains an area of ongoing study. In this review, we describe the potential implications of altered p53 function and describe novel treatment strategies designed to re-institute WTp53 protein function. A number of experimental and clinical studies are critically reviewed with respect to the role of p53 in cell cycle regulation, stability, apoptosis, DNA repair and radioresponse in normal and transformed cells. The G1 cell cycle delay (i.e. a G1 checkpoint?) as a result of WTp53-mediated cell cycle arrest in response to DNA damage is absent in tumour cells which express a mutant form of the p53 gene. In the type studied, this increase in cellular radiation survival can be mediated through the G1 checkpoint. Recent biochemical studies support an indirect role for the p53 gene in DNA repair. Based on clinicopathologic data, it remains unclear as to whether WTp53 protein function can predict for human tumour radiocurability and normal tissue

Reflect - p53

Protein | Wikipedia | Add | About

TP53 (ENSP00000269305) | H. sapiens | Edit

p53; p53 tumor suppressor; tumor suppressor p53; Trp53; Mutant p53; TP53; P04637, Sequence, Domains, Structure, Locus, Literature



Acts as a tumor suppressor in many tumor types; induces growth arrest or apoptosis depending on physiological circumstances and

izing radiation and  
mains an area of  
cal radiotherapy,  
s and materials: A  
sis, genomic  
radiation leads to a  
The G1 checkpoint  
nding on the cell  
diation-induced G1  
thways. However,

# NextBio App

## 4. Activation of wild-type p53 through disrupting its inactivation proteins

- 4.1. Tenovin-1 and Tenovin-6
- 4.2. Nuclear export inhibitors (NEIs)
- 4.3. HL198 (HDM2 ubiquitin ligase inhibitor)

## 5. Inhibition of MDM2 and wild-type p53 protein-protein interaction

- 5.1. Nutlins
- 5.2. MI219
- 5.3. RITA (reactivation of p53 and induction of tumor cell apoptosis)

## 6. Activation of p53 pathway via family member p63/p73

- 6.1. NSC176327 (a close derivative of ellipticine)
- 6.2. RETRA (reactivation of transcriptional reporter activity)

## 7. Reactivation of mutant p53—war against the remaining 50% of the cancers

- 7.1. Allosteric activation of p53 via small peptides
- 7.2. Ellipticine
- 7.3. CP-31398
- 7.4. CDB3—molecular chaperone
- 7.5. Second-site suppressor mutations
- 7.6. VWR2721 (arnifostine)
- 7.7. PRIMA-1
- 7.8. MIRA-1
- 7.9. PhiKan083

## 8. Summary

## 9. Future perspectives

## References

## 1. Overview

The p53 tumor suppressor is a transcription factor which forms a homotetramer on the target gene response elements [1]. Its mRNA is ubiquitously expressed, but the expression levels vary depending on the development stages and tissue types. In normal cells under non-stressed condition, the biologically functional p53 protein has a short half-life and is hardly detectable via western analysis [2]. The protein level of p53 is under the tight control of its negative regulator murine/human double minute 2 and 4 (MDM2/HDM2) via ubiquitination. As MDM2 is also a target gene of p53, it forms a negative feedback loop [3]. Stress signals, such as oncogene assaults, chemo- or radiation-induced DNA damages, hypoxia or nucleotide depletion, can all induce the phosphorylation of MDM2, which in turn allows the transcription of different categories of p53 target genes, such as those regulating cell cycle arrest, DNA replication for the

**CRM1** (gene) ✕

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## Marine Micropaleontology

Volume 39, Issues 1-4, June 2000, Pages 201-218

doi:10.1016/S0377-8398(00)00021-9 | How to Cite or Link Using DOI

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## Biogeography of Neogene calcareous nannofossils in the Caribbean and the eastern equatorial Pacific—floral response to the emergence of the Isthmus of Panama

K. Kameo<sup>a</sup>,  and T. Sato<sup>1, b</sup>, 

<sup>a</sup>Marine Biosystems Research Center, Chiba University, Uchiura 1, Amatsu-Kominato, Awa, Chiba 299-5502, Japan

<sup>b</sup>Institute of Applied Earth Sciences, Faculty of Engineering and Resource Science, Akita University, Tegata-Gakuencho 1-1, Akita 010-8502, Japan

Accepted 5 November 1999. Available online 19 February 2004.

### Abstract

Principal components analysis of nannofossil assemblages in five ODP sites in the Caribbean and the eastern equatorial Pacific was used to monitor Neogene surface water circulation changes. In 15.83–10.71 Ma, floral distributions clearly show the existence of the Circum-tropical Current between the Caribbean and the eastern equatorial Pacific and no surface water communication between the northern and southern Caribbean. In 10.71–9.36 Ma, the Circum-tropical Current weakened and the northward intra-Caribbean current had been initiated. Northern and southern Caribbean surface waters again became separated in 8.35–3.65 Ma and the Circum-tropical Current was regenerated. After 2.76 Ma, the northward intra-Caribbean current has completely been established and the Circum-tropical Current disappeared. This suggests that a barrier to the Circum-tropical Current had formed, indicating the final closure of the Isthmus of Panama.



### Supplementary content for this Article



Supplementary data 1. Supplementary data 1. **Table 1.** Counting data of nannofossil genera (relative abundance in percents).

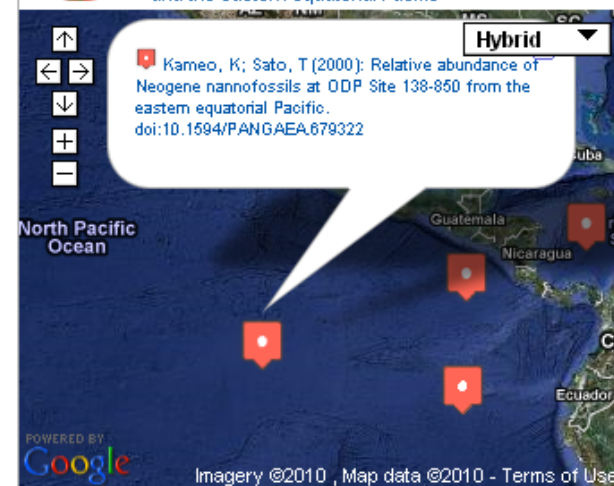
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### PANGAEA<sup>o</sup> – Supplementary Data



Neogene calcareous nannofossils in the Caribbean and the eastern equatorial Pacific



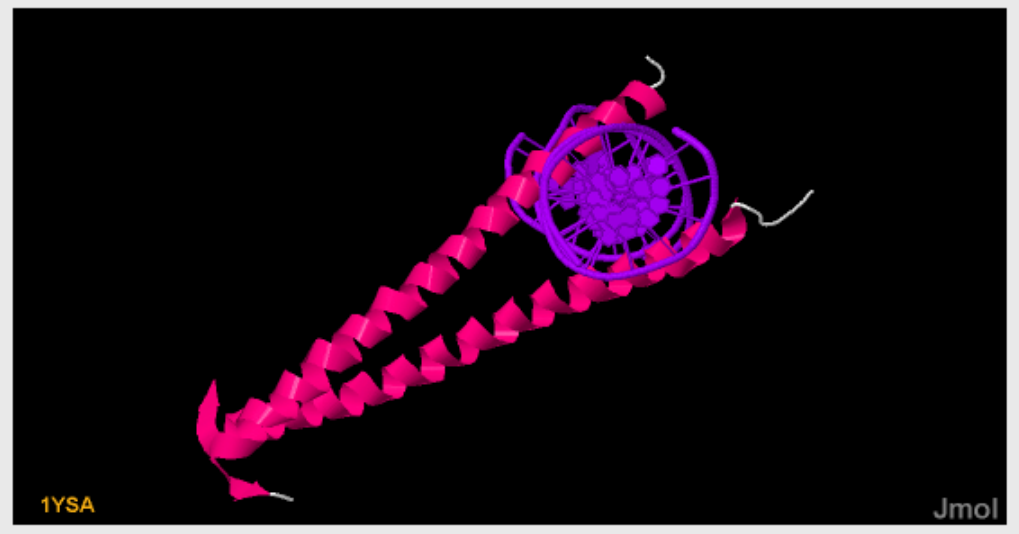
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- Late Neogene paleoceanography of the eastern Caribbean, ... *Marine Micropaleontology*

# PDB Protein Viewer


**Protein Viewer**  

1XFN 1NWZ 1XFQ 1YSA



1YSA Jmol

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Asymmetric Unit        Display

Biological Assembly    Color

Surface     **Help**

**Keywords:** leucine zipper; bZIP; photocontrol; photoactive yellow protein; PYP

**Abbreviations:** PYP, photoactive yellow protein; SOE, splicing by overlap extension; PDB, Protein Data Bank; TAE,

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	gigasingles
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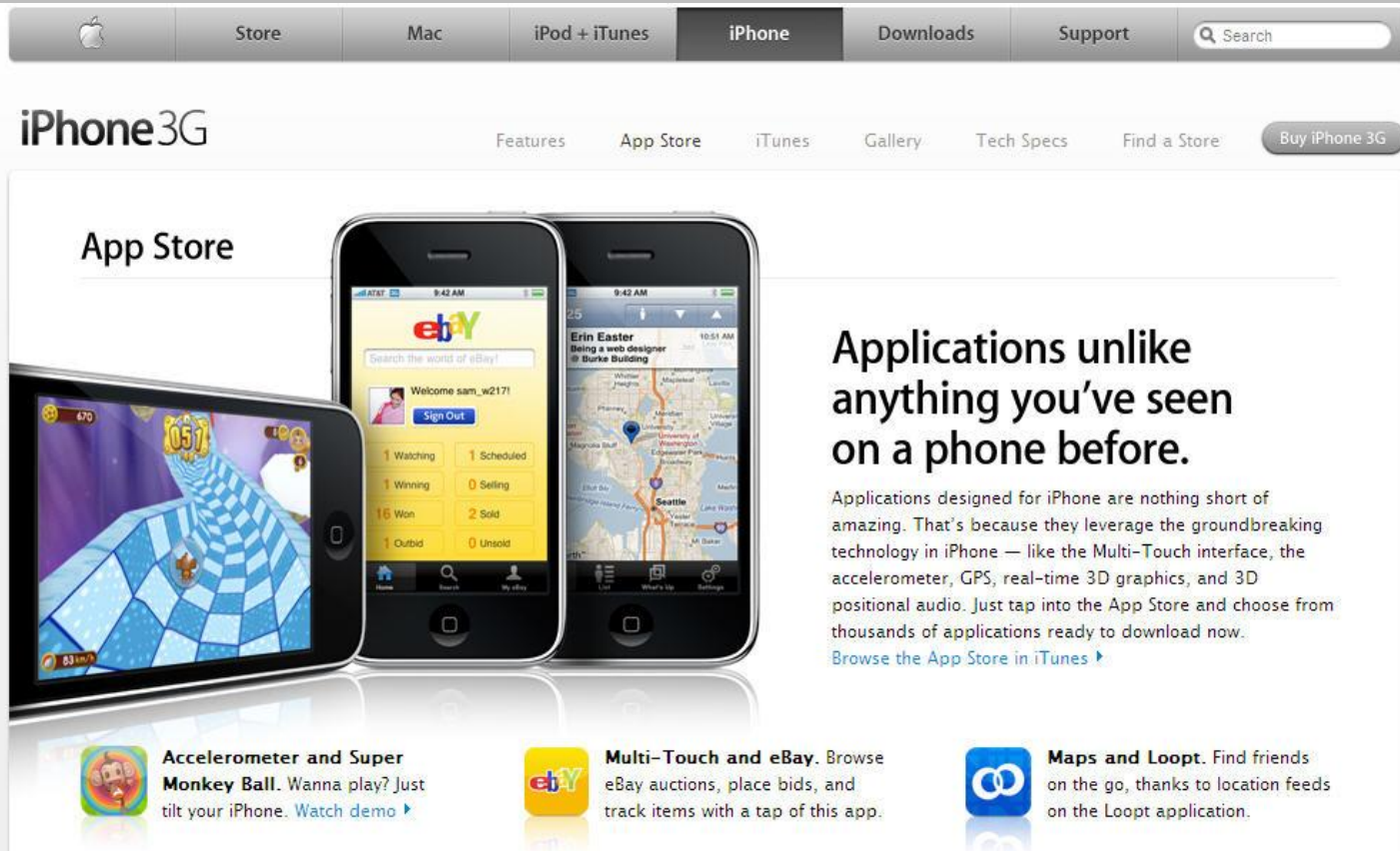




“We want to reinvent the phone”.

Steve Jobs, MacWorld Keynote January 9, 2007

# Mobile marketplace



The image shows a screenshot of the Apple website's iPhone 3G page. At the top, there is a navigation bar with links for Store, Mac, iPod + iTunes, iPhone, Downloads, Support, and a search bar. Below this, the 'iPhone 3G' title is followed by links for Features, App Store, iTunes, Gallery, Tech Specs, and Find a Store, along with a 'Buy iPhone 3G' button. The main content area features the 'App Store' heading and a large image of three iPhones displaying different apps: Super Monkey Ball, eBay, and Maps. To the right of the iPhones, a large headline reads 'Applications unlike anything you've seen on a phone before.' Below this headline is a paragraph of text describing the capabilities of iPhone apps and a link to 'Browse the App Store in iTunes'. At the bottom, there are three callout boxes, each with an app icon and a brief description of its features.

Store Mac iPod + iTunes iPhone Downloads Support Search


iPhone 3G Features App Store iTunes Gallery Tech Specs Find a Store Buy iPhone 3G


## App Store


### Applications unlike anything you've seen on a phone before.

Applications designed for iPhone are nothing short of amazing. That's because they leverage the groundbreaking technology in iPhone — like the Multi-Touch interface, the accelerometer, GPS, real-time 3D graphics, and 3D positional audio. Just tap into the App Store and choose from thousands of applications ready to download now.

[Browse the App Store in iTunes](#)

 **Accelerometer and Super Monkey Ball.** Wanna play? Just tilt your iPhone. [Watch demo](#)

 **Multi-Touch and eBay.** Browse eBay auctions, place bids, and track items with a tap of this app.

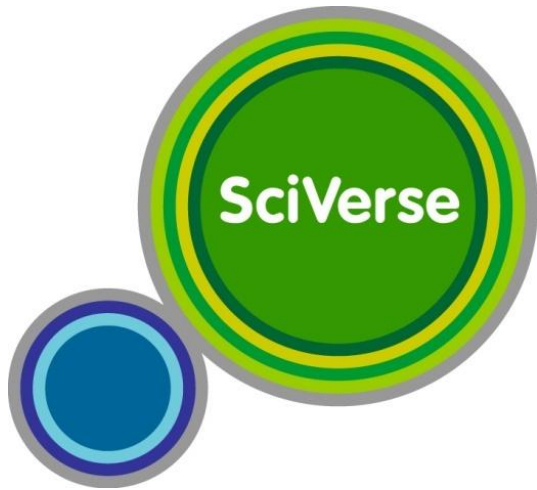
 **Maps and Loopt.** Find friends on the go, thanks to location feeds on the Loopt application.

“...As certain types of content become commoditized, sometimes by sheer volume alone, publishers must learn how to create products that **integrate content** from many different sources and which can be curated with a **specific end-user workflow** in mind.

**Outsell 2010**



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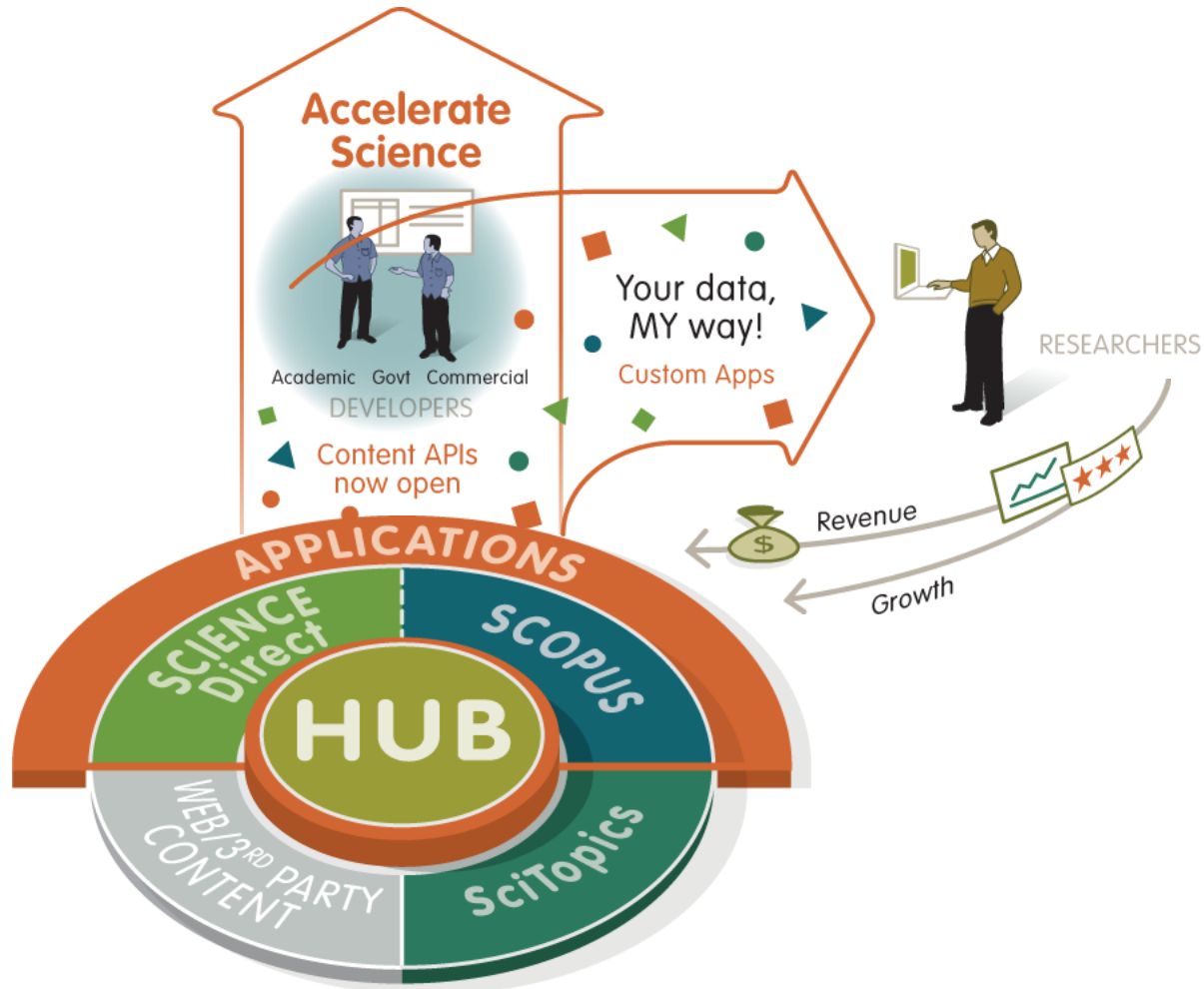
INTERNATIONAL  
REPOSITORY  
18 INSTITUTIONS

THIRD PARTY  
CONTENT

# Providing Elsevier content APIs for third party application development



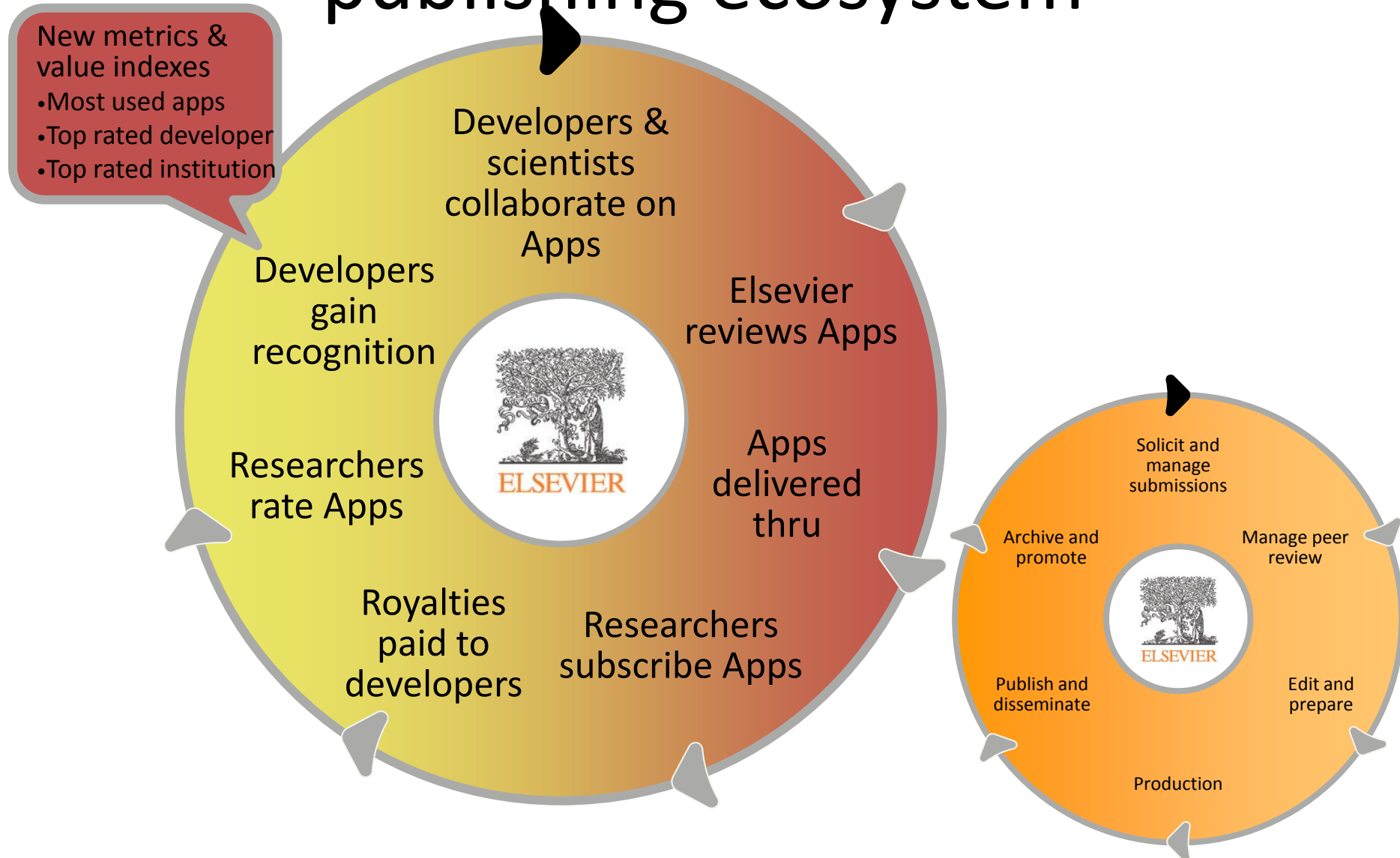
# Empowering research community



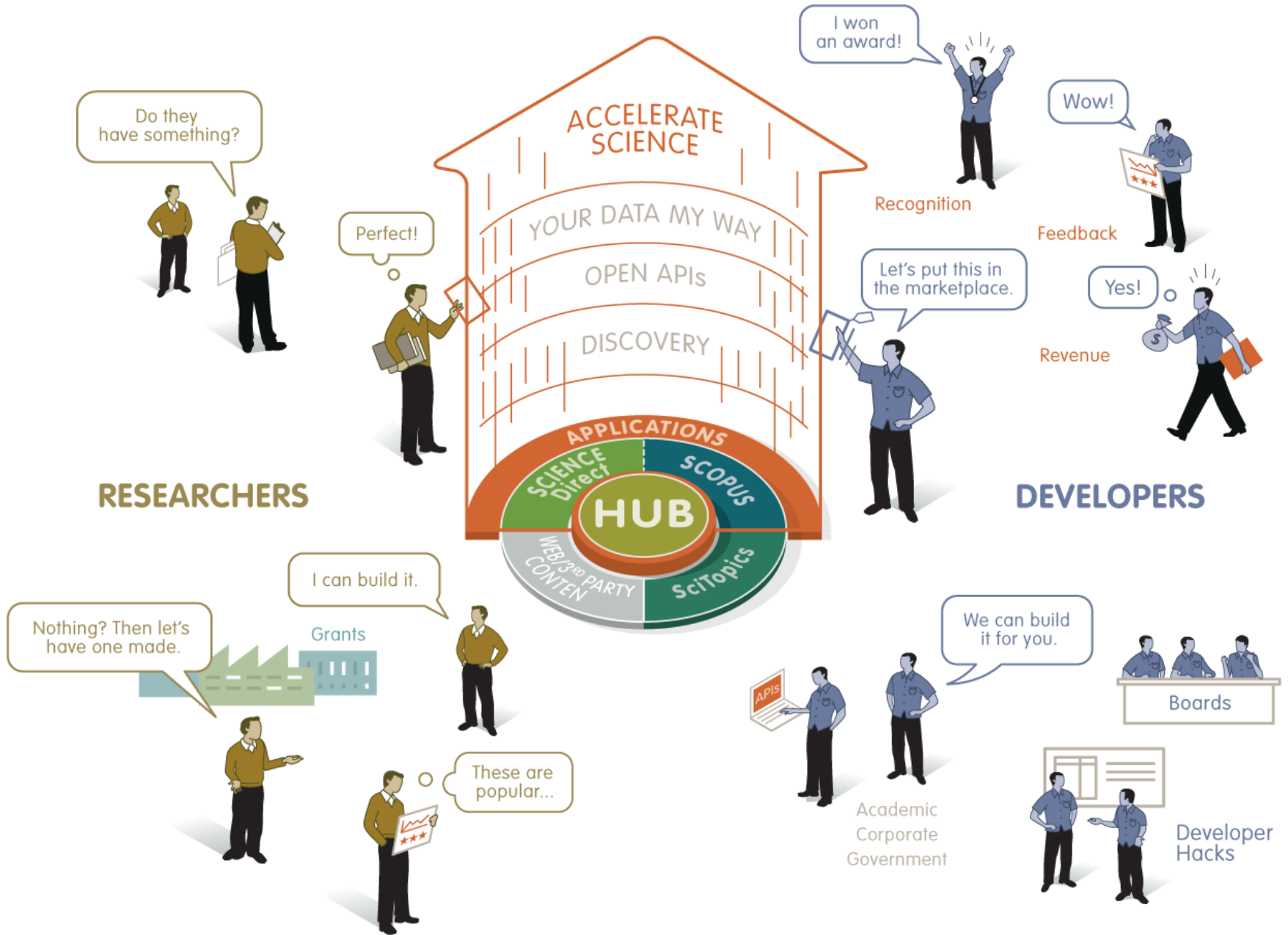
# Current publishing standard



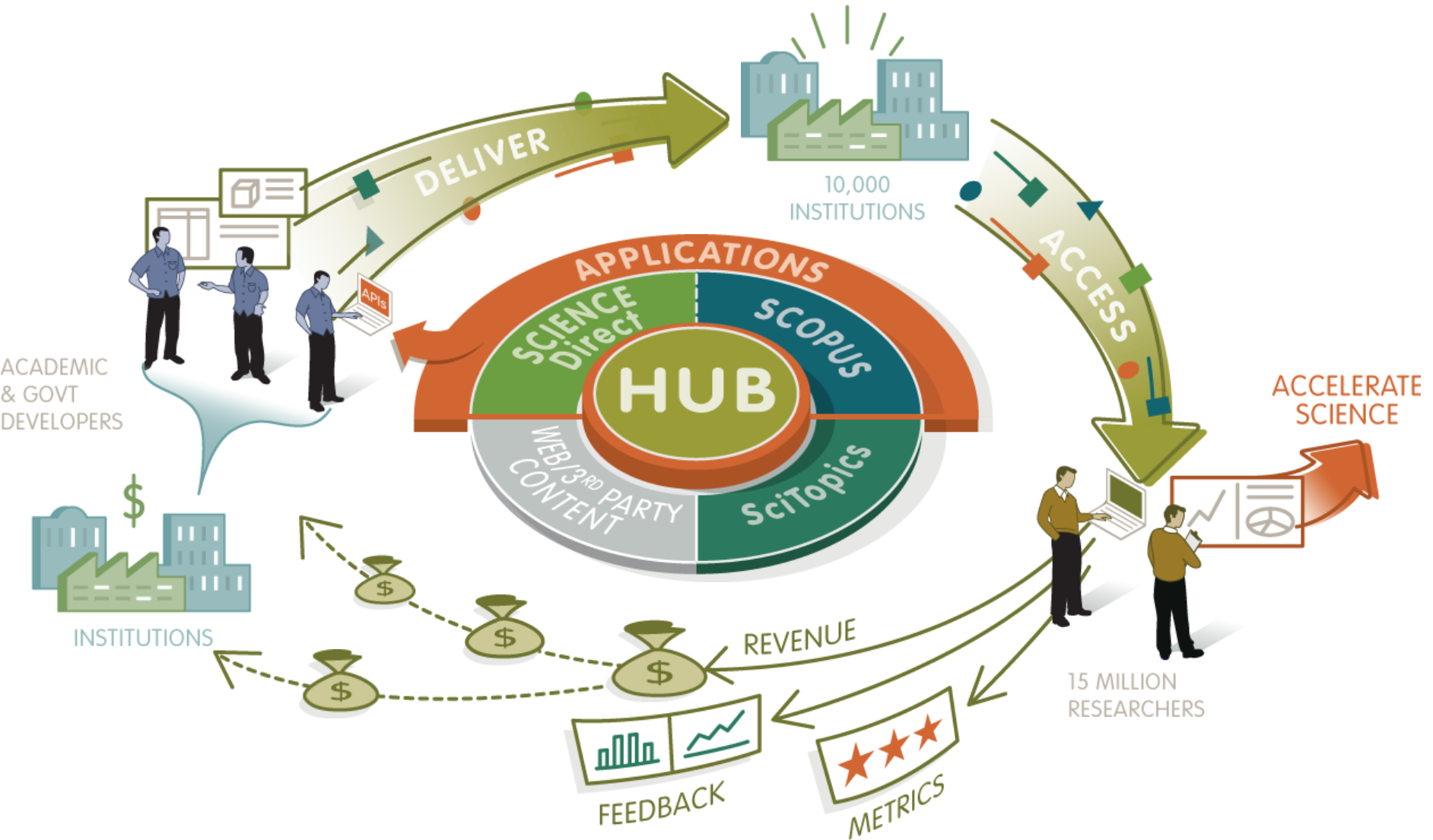
# Applications to create a new publishing ecosystem



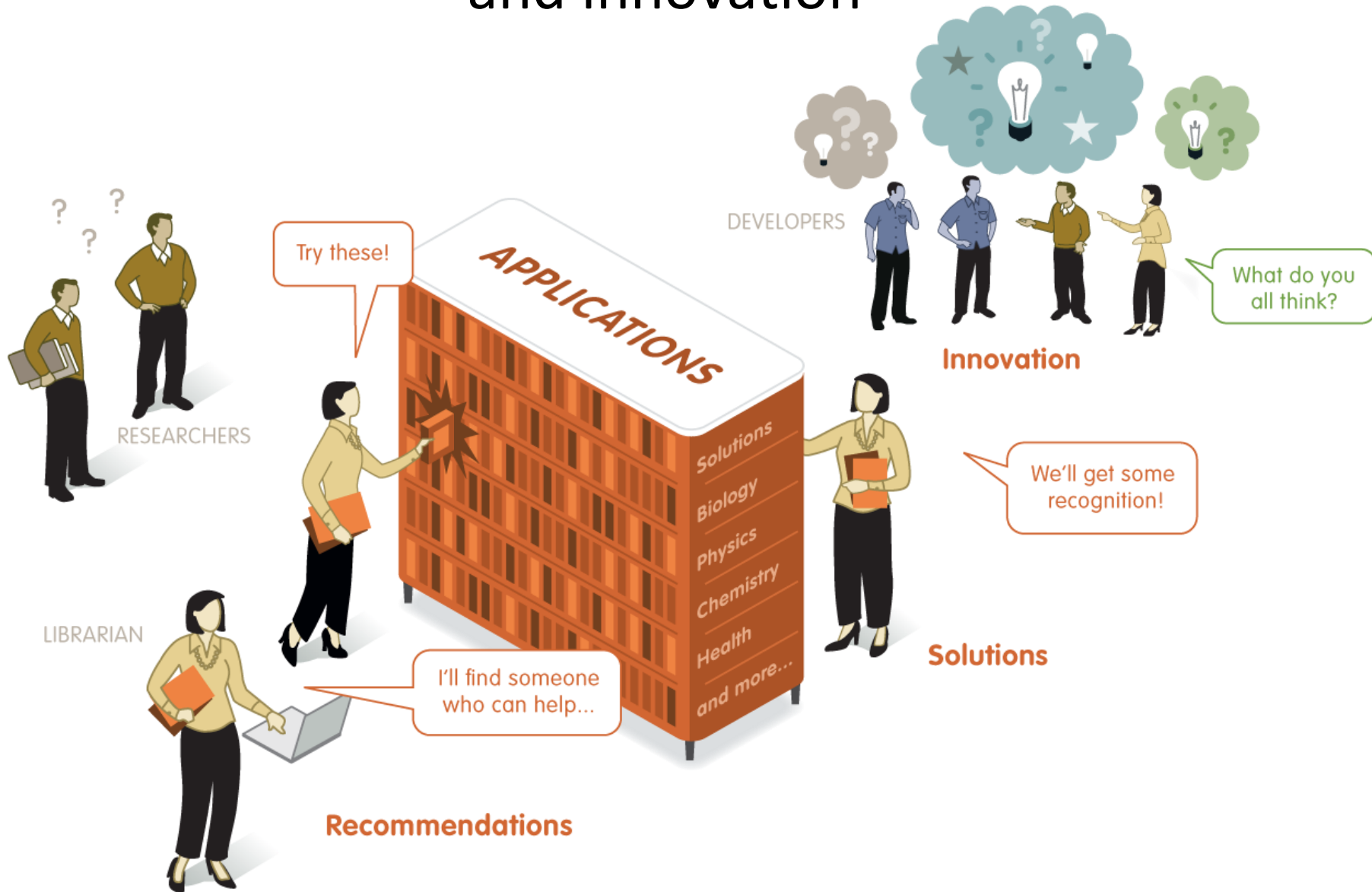
# Collaboration & Creativity



# Institutions can gain recognition and revenues

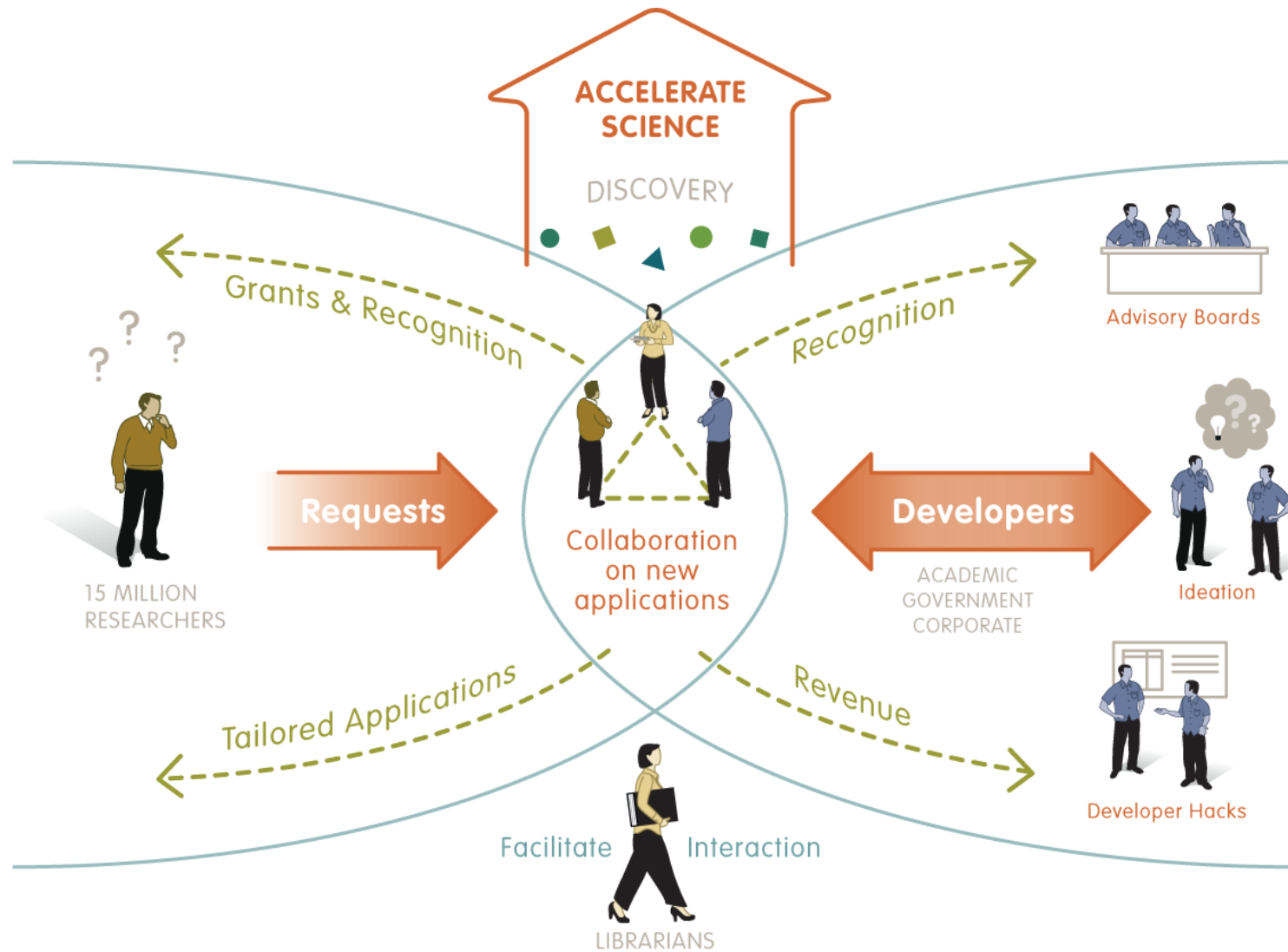


# Libraries can become focal point for applications and innovation





# A new publishing ecosystem





BETA

## SciVerse Applications

### Why SciVerse Applications Beta?

SciVerse Applications is a marketplace of scientific applications focused on enhancing the search and discovery experience within the SciVerse suite of products - [Hub](#), [ScienceDirect](#) and [Scopus](#). As scientific publications and research data continue to increase, researchers need tools to find, manage and analyze information to deliver the insights they need.

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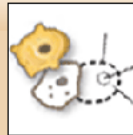
#### Illinois Catalog Viewer



SciVerse Hub and ScienceDirect

Are you a librarian interested in integrating your databases in SciVerse? See what the University Illinois Library has done with SciVerse Applications.

#### ODiSea



SciVerse Hub

Use ontologies and public data resources to semantically expand your Life/Health Sciences search.

#### quantiFind

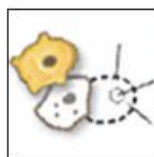


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Experts Profile	Most Cited*		Embase
More by This Author*	Matching Sentences*		HealthMash
Recommend This	Methods Search*		RPI
Mendeley Readers	Illinois Catalog Viewer		
Co-Author Network	Search Query Translator		
	Most Cited & Most Read		
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 \* Default app on SD, SC or Hub



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The eReader Formats application allows users to convert ScienceDirect articles as seen in the browser into ePUB or Mobipocket format, whichever is appropriate for the user's electronic reader device.



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SciVerse Hub, ScienceDirect

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### User Reviews

#### Average Rating

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By FELICIANO PAQUISSI

★★★★★

very good

November 26, 2010 1:03 PM EST

[\(Report review\)](#)

By Pierre J. Rivard

★★★★☆

Hi, I downloaded this application on my login SciVerse window. It did not work the first time. It is important to be logged in before loading it. Once the program was downloaded it worked fine, easily and was very rapid for transferring. I transferred five articles on my AmazonKindle book. These articles are stored on the e-book. It is easy to read them, the pages are well weighted. It is very usefull and easy to use. The graphics are in full size and the paper doesn't take much space on the e-book. I recommend it to every owner of Kindle.

November 21, 2010 5:52 PM EST

[\(Report review\)](#)



ELSEVIER



## Illinois Catalog Viewer

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SciVerse Hub, ScienceDirect

Free

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### Overview

This application broadcasts the user's search terms to the University of Illinois VuFind online catalog and displays relevant catalog results alongside the results of the SciVerse Hub search. This utilizes custom VuFind APIs developed at the University of Illinois Library; if you are interested in setting up a Sciverse / VuFind application for your institution, you can contact [bishoff2@illinois.edu](mailto:bishoff2@illinois.edu) for additional details.

The application takes the user search terms, sends them to UIUC's VuFind instance, and returns a formatted results list. Clicking any results will open the Illinois VuFind Catalog in a new window, where a user may request an item or continue searching.

The target audience for this service is anyone affiliated with the University of Illinois; however, we are more than willing to share the code for our APIs with any interested institution. To learn more about how this application was built please read the technical app description

**Be the first to review this application!**

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# Application Integration Points

### 1 Hub Results Page

The screenshot shows a search results page with a list of articles. Three articles are highlighted with red boxes and numbered 1, 2, and 3. An orange arrow points from the top right 'An In-line App' button to the first article's abstract. Another orange arrow points from the left side of the page to the first article's abstract. A third orange arrow points from the right side of the page to the 'An In-line App' button. The first article is titled 'Bayesian learning for maximizing information rate of rapid visual presentation for sensory neurons' by Endres, Dominik. The second article is 'Detection of gabler patch arrangements is explained by natural image statistics' by Ernst, Italo. The third article is 'SheFind: A software tool for introducing a restriction site as a marker for successful site-directed mutagenesis' by [unreadable].

### 3 ScienceDirect Article Page

The screenshot shows a full article page titled 'Structural Insights into the Mechanisms of Drug Resistance in HIV-1 Protease NL4-3'. A red box highlights the article title and authors. An orange arrow points from the left side of the page to the article title. Another orange arrow points from the right side of the page to the 'An In-line App' button. The page includes an abstract, keywords, and a list of references.

### 2 Scopus Abstract Page

The screenshot shows a Scopus abstract page for the article 'The cytostatic activity of pyrimidine nucleosides is strongly modulated by Mycoplasma hyorhinis infection: Implications for cancer therapy'. A red box highlights the article title and authors. An orange arrow points from the left side of the page to the article title. Another orange arrow points from the right side of the page to the 'An In-line App' button. The page includes an abstract, keywords, and a list of references.

### 4 ScienceDirect Results Page

The screenshot shows a search results page with a list of articles. Three articles are highlighted with red boxes and numbered 1, 2, and 3. An orange arrow points from the top right 'An In-line App' button to the first article's abstract. Another orange arrow points from the left side of the page to the first article's abstract. A third orange arrow points from the right side of the page to the 'An In-line App' button. The first article is titled 'Characteristics and outcome of 1756 operable breast cancers in women over 70 years of age' by [unreadable]. The second article is 'Talking adjusted treatments for the individual breast cancer patient' by [unreadable]. The third article is 'Current policies for surveillance and management in women of first breast and ovarian cancer: a survey among European family cancer clinics' by [unreadable].



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Example: acute psychological stress

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By author: Anil K. Jain , Scott Shenker

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TOP 25 Hottest Articles  
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**CF quantiFind**

quantiFind

quantiFind is an analytics tool that finds the most significant data in your search results and allows you to discover hidden relationships and trends.

Here are some samples:

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- See the limits of technology: [fiber loss](#)
- See distributions of values: [nanotube length](#)



Search within results

### Refine Results

### Content Sources

ScienceDirect (37326)

### Year

- 2011 (98)  
 2010 (2806)  
 2009 (2277)  
 2008 (2275)  
 2007 (2190)

[View more](#)

### Keyword

- phosphatase  
 tartrate-resistant acid phosphatase  
 bone resorption  
 tartrate resistant acid phosphatase  
 osteoclast

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Sort: **Relevance** | Date

1.  **Tartrate-resistant acid phosphatase isoform 5b (TRACP 5b) as a serum maker for cancer with bone metastasis**

*Clinica Chimica Acta, Volume 411, Issue 21-22, November 2010, Pages 1553-1564*

Chao, Tsu-Yi; Wu, Yi-Ying; Janckila, Anthony J.

...resorption, tartrate-resistant acid phosphatase 5b (TRACP 5b) has been verified...procollagen (PICP) Tartrate-resistant acid phosphatase 5b (TRACP 5b) N-telopeptide...DPD) 5. Tartrate-resistant acid phosphatase as a bone marker In 1938...

**quantiFind DATA BROWSER**

percent	(22)
GENE	(18)
second	(10)
study	(7)

Showing snippet **1 out of 22** of data type **percent** in this document

...myeloma, lung, renal, thyroid, and melanoma ( ) . Breast cancer and prostate cancer account for about **80%** of all metastatic bone cancers . This is due to their high overall prevalence and their relatively long ...

[Click here to open quantiFind application for corpus-wide data analysis.](#)

2.  **Serum tartrate-resistant acid phosphatase 5b (TRACP5b) activity as a biomarker for bone metastasis in non-small cell lung cancer patients**

*Clinica Chimica Acta, Volume 412, Issue 1-2, January 2011, Pages 181-185*

Yao, Nai-Shun; Wu, Yi-Ying; Janckila, Anthony J.; Ku, Chih-Hung; Hsieh, An-Tai; Ho, Ching-Liang; Lee, Su-Huei; Chao, Tsu-Yi

...techniques for early detection and monitoring treatment response [10] . One such marker is osteoclastic tartrate resistant acid phosphatase isoform 5b (TRACP5b) [11] . During bone resorption or destruction, osteoclasts secreted TRACP5b into the...

3.  **Biogenesis of tartrate-resistant acid phosphatase isoforms 5a and 5b in stably transfected MDA-MB-231 breast cancer epithelial cells**

*Biochimica et Biophysica Acta (BBA) - Molecular Cell Research, Volume 1803, Issue 5, May 2010, Pages 598-607*

Zenger, Serhan; Ek-Rylander, Barbro; Andersson, Göran

...Introduction Tartrate-resistant acid phosphatase (TRAP), also...and geneticin-resistant cell clones were...using the Leukocyte acid phosphatase staining kit (Sigma) in the presence...measure of tartrate-resistant acid phosphatase activity. 2.7. Kinetic...

4.  **Osteoclast migration on phosphorylated osteopontin is regulated by endogenous tartrate-resistant acid phosphatase**

*Experimental Cell Research, Volume 316, Issue 3, February 2010, Pages 443-451*

Ek-Rylander, Barbro; Andersson, Göran

...mechanism. Tartrate-resistant acid phosphatase (TRAP), a metallophosphatase...activity assay Tartrate-resistant acid phosphatase activity was analyzed as...incubated with tartrate-resistant acid phosphatase (TRAP) purified from...

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**ODiSSea**

Recognized Terms found in query

- acid phosphatase
- phosphoric monoester hydrolase
- acid
- alveolar basement membrane antibody
- beta-glucuronidase antibody
- carboxypeptidase b
- salla disease
- suspected diagnosis
- resistant

[See all terms & resources](#)


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### Expert Search

Top experts in Computer Science for  
**resistant acid phosphatase.**

#### Minoru Kanehisa

 Professor, Bioinformatic's Center Bioknowledge Systems...  
H-index: 22; Citation: 7730  
DNA sequence / ENZYME database; Expression data / Microarray experiment; Data mining

#### D. Boneh

 Professor, Computer Science and Electrical Engineering Stanford Unive...  
H-index: 53; Citation: 23135  
Signature Schemes / Authenticated Key Exchange Secure;

#### Brent Waters

 Computer Scientist, SRI - International...  
H-index: 24; Citation: 2288  
Signature Schemes / Authenticated Key Exchange Secure; Security Views / New Denial



gemcitabine Search Search Tips

CF quantiFind

quantiFind

Help

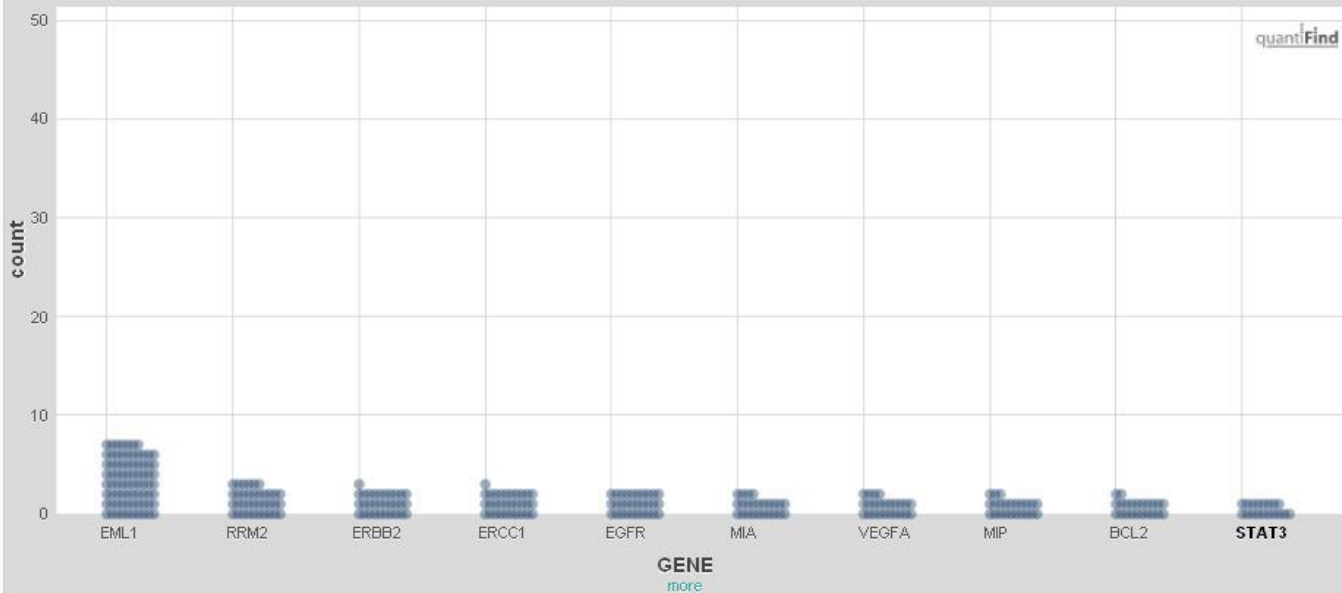
gemcitabine

Search

Start Over

Results

Showing 663 data points out of 664 for type GENE



Sort by count

Click and drag to zoom in

Reset Zoom

Histogram

Timeline

Showcase

Search within results

Search

Refine Results

Limit to Exclude

Content Sources

- ScienceDirect (7502)
- MD Consult (2953)
- Scopus (2880)
- University of Toronto T-Space (253)
- DIVA (205)

View more

Year

- 2010 (3547)
- 2009 (616)
- 2008 (308)
- 2007 (937)
- 2006 (966)

View more

Keyword

- stress
- psychological
- human
- article
- mental stress

View more

Limit to Exclude

Sort: Relevance | Date

- 1. Acute Psychological Stress Reduces Working Memory-Related Activity in the Dorsolateral Prefrontal Cortex**  
*Biological Psychiatry, Volume 66, Issue 1, July 2009, Pages 25-32*  
 Qin, Shaozheng ; Hermans, Erno J. ; van Marle, Hein J.F. ; Luo, Jing ; Fernández, Guillén

...control group; **Stress, stress** group. \*p .05; \*\*p .01; \*\*\*p 0.001. **Stress** induction in the **stress**-induction group, **acute psychological stress** was induced by showing short movie clips in the MRI scanner containing scenes with extremely...
- 2. Social Support, Social Intimacy, and Cardiovascular Reactions to Acute Psychological Stress**  
*Annals of Behavioral Medicine, January 2009, Pages 1-8*  
 Phillips, A.C. ; Gallagher, S. ; Carroll, D.

...Exaggerated cardiovascular reactions to **psychological stress** are considered a risk factor for...attenuating cardiovascular reactivity to **stress**. Purpose: To examine the effects...on cardiovascular reactivity to **acute stress**. The variables were stranger...
- 3. Preliminary evidence that acute and chronic daily psychological stress affect sexual arousal in sexually functional women**  
*Behaviour Research and Therapy, Volume 45, Issue 9, September 2007, Pages 2078-2089*  
 ter Kuile, Moniek M. ; Vigeveno, Daan ; Laan, Ellen

...or prolonged **stress** could lead to...impact of an **acute psychological** stressor on genital...chronic daily **stress** has to be explored...effect of an **acute** stressor on sexual...responding, we used a **psychological stress** task (a frustrating...
- 4. The effects of acute psychological stress on circulating inflammatory factors in humans: A review and meta-analysis**  
*Brain, Behavior, and Immunity, Volume 21, Issue 7, October 2007, Pages 901-912*  
 Steptoe, A. ; Hamer, M. ; Chida, Y.

**Stress** influences circulating inflammatory...circulating inflammatory factors respond to **acute psychological stress** under laboratory conditions. However...r = 0.58, p 0.001) following **acute stress**, and marginal effects for CRP...
- 5. MD Consult - Effect of acute psychological stress on the hypercoagulable state in subjects (spousal caregivers of patients with ...**  
<http://www.mdconsult.com/das/journal/view/0/N/1/188038...>, August 2010

...Cardiology > Effect of **acute psychological stress** on the... Request CME...and Conditions Effect of **acute psychological stress** on the hypercoagulable state...2901564-8 Effect of **acute psychological stress** on the hypercoagulable state...
- 6. Acute psychological stress: Effects on chemotaxis and cellular adhesion molecule expression**  
*Psychosomatic Medicine, Volume 65, Issue 4, July 2003, Pages 598-603*  
 Redwine, L. ; Snow, S. ; Mills, P. ; Irwin, M.

...Objective: Activation of a **psychological stress** response increases autonomic...examine the effects of an **acute psychological stress** on chemotactic responses of...Conclusions: These data show that **acute stress** induces increase of chemotaxis...
- 7. MD Consult - Acute psychological stress and the propensity to ventricular arrhythmias evidence for a linking mechanism. ...**

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1. Steptoe, A.	<div style="width: 100%; height: 10px; background-color: green;"></div>
2. Bryant, R.A.	<div style="width: 100%; height: 10px; background-color: green;"></div>
3. Armario, A.	<div style="width: 100%; height: 10px; background-color: green;"></div>
4. Von Kanel, R.	<div style="width: 100%; height: 10px; background-color: green;"></div>
5. Mills, P.J.	<div style="width: 100%; height: 10px; background-color: green;"></div>
6. Carroll, D.	<div style="width: 100%; height: 10px; background-color: green;"></div>
7. Dimsdale, J.E...	<div style="width: 100%; height: 10px; background-color: green;"></div>
8. Kudielka, B.M...	<div style="width: 100%; height: 10px; background-color: green;"></div>
9. Anisman, H.	<div style="width: 100%; height: 10px; background-color: green;"></div>
10. Ehler, U.	<div style="width: 100%; height: 10px; background-color: green;"></div>

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For your query **acute psychological stress** we have matched

**1371**  
sentences

**608**  
paragraphs

Results are based on top documents that match your query **acute psychological stress** found in ScienceDirect. Would you like to see the complete sentences?  
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Current: April to June 2010

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Cited | Read past | Read past 60

1. Seminars in medicine of the Beth Israel Deaconess Medical Center: Protective and damaging effects of stress mediators (1657)

# Library app exposing their subscribed content and catalog



gene cell Search Search Tips

About 566615 results for: ALL(gene cell)

< Previous | Go to page 1 of 22665 | Next page >

Search within results

Refine Results

Limit to Exclude

Content Sources

- Scopus (275809)
- ScienceDirect (280637)
- MD Consult (19613)
- Patent Offices (6178)
- Pubmed Central (1922)

View more

Year

- 2010 (37968)
- 2009 (17280)
- 2008 (7810)
- 2007 (27665)
- 2006 (32786)

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Keyword

- transfection
- gene therapy
- apoptosis
- gene expression
- real time pcr

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- Sort: Relevance | Date
- "Cell-autonomous behavior of the roIC gene of Agrobacterium rhizogenes during leaf development: a visual assay for transposon ..."**  
*http://www.biotech-info.net/cell\_behavior.html, December 2008*  
"Cell-autonomous behavior of the roIC gene of Agrobacterium rhizogenes...Chlorophyll is a visible cell-autonomous marker...caused by the roIC gene product allows us to...indicate that the roIC gene product behaves in a cell-autonomous manner..."
  - Trithorax, Hox, and TALE-class homeodomain proteins ensure cell survival through repression of the BH3-only gene egl-1**  
*Developmental Biology, Volume 329, Issue 2, May 2009, Pages 374-385*  
Potts, Mallia B.; Wang, David P.; Cameron, Scott  
...regulate programmed cell death. Gain-of...mutations affecting Hox gene function are among...a trithorax-like gene, and uno-62...preventing programmed cell death of specific...regulate programmed cell death in the ventral...trithorax-group gene lin-59, which...
  - Indexing TNF- $\alpha$  gene expression using a gene-targeted reporter cell line**  
*BMC Biology, Volume 7, Issue 1, February 2009, Page 8*  
Yan, Ziyang; Lei-Butters, Diana; Engelhardt, John F.; Leno, Gregory H  
...detection of drug-induced changes in disease gene expression. Cell-based gene reporter assay systems were developed as an...approximately 3 kb of DNA in human cells 17 18. TNF- $\alpha$  gene expression is cell type-specific and induced by a wide variety of...
  - Role of epigenetics in liver-specific gene transcription, hepatocyte differentiation and stem cell reprogramming**   
*Journal of Hepatology, Volume 51, Issue 1, July 2009, Pages 187-211*  
Snykers, Sarah; Henkens, Tom; De Roo, Evelien; Vinken, Mathieu; Frazczek, Joanna; De Kock, Joery; De Prins, Evij; Geerts, Albert; Rogiers, Vera; Vanhaecke, Tamara  
...strict control of gene transcription [8...derived hepatoma cell lines, inhibition of...muscle-specific gene expression in undifferentiated...coincides with increased cell proliferation and...thereby allowing gene expression [53...within distinct cell types due to the interplay...
  - Identification of a minimal cis-element and cognate trans-factor(s) required for induction of Rac2 gene expression during K562 cell differentiation**  
*Gene, Volume 440, Issue 1-2, July 2009, Pages 63-72*  
Muthukrishnan, Rajarajeswari; Skalik, David G.  
...critical for blood cell development and function...mechanisms regulating Rac2 gene expression in blood...5 kb proximal Rac2 gene promoter region directs...promiscuous transcription in cell lines, suggesting...in modulating Rac2 gene expression during terminal hematopoietic cell differentiation remain...
  - Cell Cycle Regulatory Effects of Retinoic Acid and Forskolin Are Mediated by the Cyclin C Gene**  
*Journal of Molecular Biology, Volume 383, Issue 2, October 2008, Pages 261-274*

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1147 Catalog Results

- 1. [Genes to cells](#)  
| Journal / Magazine
- 2. [From genes to cells / 1997](#) | Book
- 3. [Cardiac engineering : from genes and cells to structure and function / 2004](#) | Book
- 4. [The role of the mitochondria in human aging and disease : from genes to cell](#)

# ScienceDirect article page

## A phase II study of combination chemotherapy in early relapsed epithelial ovarian cancer using gemcitabine and pegylated liposomal doxorubicin

Mansoor Raza Mirza<sup>a, \*</sup>, Bente Lund<sup>b</sup>, Jacob Christian Lindegaard<sup>c</sup>, Ilina Keldsen<sup>d</sup>, Anders Mellemegaard<sup>e</sup>, René dePont Christensen<sup>f</sup> and Kamma Bertelsen<sup>g</sup>

<sup>a</sup> Rigshospitalet, Copenhagen University Hospital, Copenhagen, Denmark

<sup>b</sup> Aalborg University Hospital, Aalborg, Denmark

<sup>c</sup> Aarhus University Hospital, Aarhus, Denmark

<sup>d</sup> Regionshospital, Herning, Denmark

<sup>e</sup> Hillerød Central Hospital, Hillerød, Denmark

<sup>f</sup> University of Southern Denmark, Odense, Denmark

<sup>g</sup> Odense University Hospital, Odense, Denmark

Received 8 April 2010. Available online 17 July 2010.

### Abstract

#### Objective

Treatment of epithelial ovarian cancer patients relapsing with a short treatment-free interval (TFI) after prior chemotherapy is unsatisfactory. This phase II trial evaluated the activity and feasibility of pegylated liposomal doxorubicin (PLD) plus gemcitabine in this setting.

#### Methods

Patients who had received prior platinum and paclitaxel with a TFI 0–12 months received PLD 25 mg/m<sup>2</sup> day 1 plus gemcitabine 800 mg/m<sup>2</sup> day 1, 8 every 21 days. Gemcitabine was dose escalated to 1000 mg/m<sup>2</sup> day 1, 8 from course 2 in the absence of grade 3/4 toxicity. The primary endpoint was progression-free survival (PFS). Patients were stratified according to response to primary chemotherapy.

#### Results

Seventy-nine patients ( $n = 26$  with CR on prior chemotherapy and TFI 6–12 months;  $n = 20$  with CR and TFI 0–6 months;  $n = 33$  with PR/SD and TFI 0–12 months) were enrolled. The median age was 59 years (range 31–77 years), and 33 patients had received  $\geq 2$  prior treatments. A median of five courses was delivered per patient (total 389 courses). Gemcitabine was dose escalated in 124 courses and reduced in 105 courses. No PLD dose reductions occurred. Grade 3/4 toxicities were febrile neutropenia ( $n = 4$ ), PPE ( $n = 2$ ), and mucositis ( $n = 2$ ). One toxic death occurred (pneumonitis/alveolitis). Responses were complete in 5.1%, partial in 27.9%, and stable disease in 55.7%. Median OS and PFS were 12.5 and 6.4 months, respectively.

#### Conclusions

The PLD–gemcitabine combination is an effective and well-tolerated salvage treatment for relapsed epithelial ovarian cancer and is a valid candidate for evaluation in a phase III trial.

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## US findings of bilateral primary breast cancer: Retrospective study

Li Lou<sup>a</sup>, Xin-Li Cong<sup>a</sup>, Guo-Fang Yu<sup>a</sup>, Ji-Chang Li<sup>a</sup> and Yu-Xiang Ma<sup>a</sup>

<sup>a</sup>Department of Ultrasound, Shandong Medical Imaging Research Institute, Shandong University, 324# Jing 5 Road, Jinan 250021, China

Received 12 April 2006; revised 18 July 2006; accepted 18 August 2006. Available online 24 October 2006.

### Abstract

### Background

For women with breast cancer, the contralateral breast is at high risk. The bilateral cancers may be synchronous or metachronous. If the bilateral breast cancers have similar ultrasonography (US) appearances, the US findings of the first breast cancer (index cancer) might lead to early detection of the contralateral cancer. The purpose of this study was to identify the US characteristics of bilateral breast cancer and to determine whether bilateral breast cancers have similar US appearances and whether the US findings for one breast cancer might be predictive of the contralateral breast cancer.

### Methods

We retrospectively reviewed the US manifestations of 58 patients with surgically proven bilateral primary breast cancer and compared the contralateral cancer with the index cancer by evaluation the margin, shape, inside echoes, posterior attenuation, calcification and color flow signals of 58 lesion pairs to investigate whether the bilateral breast cancers have similar US appearances.

### Results

Bilateral primary breast cancers were more located in upper outer quadrant, frequently spiculation, taller than wide shape, with irregular margin, heterogeneous internal echo and acoustic shadowing, containing microcalcification and abundant color flow signals. The most common US appearances were taller than wide shape (75.0%, 87/116), irregular margins (79.3%, 92/116) and heterogeneous internal echo (86.2%, 100/116). Of the total 58 lesion pairs, 18 (31.0%) pairs had similar US characteristics, whereas 40 (69.0%) pairs had different US characteristics.

### Conclusions

US signs of the index cancer do not indicate the most likely appearance of the second cancer in the contralateral breast. Evaluation of the contralateral cancer should be performed without regard for the US findings for the index cancer.

**Keywords:** Bilateral primary breast cancer; Diagnosis; Ultrasonography (US)

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(ALIAS: Fei-Yue Wang) [FOAF] [Follow]

**Position:** Chair

**Affiliation:** Institute of Automation, Chinese Academy of Sciences

**Address:** Institute of Automation, Chinese Academy of Sciences Haidian District, Beijing, P.R. China, 100190

**Phone:** +86/10/82614437

**Fax:** +86/10/82615087

**Email:** feiyue@ieee.org

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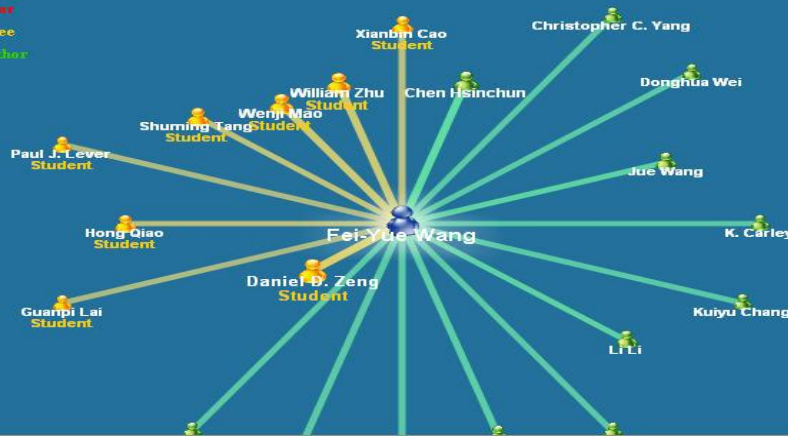
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## Research on ontology-based product knowledge S-B-F representation model

Ying, H.<sup>a</sup> , Li, S.-P.<sup>a</sup> , Guo, M.<sup>a</sup> , He, S.-L.<sup>b</sup> 

<sup>a</sup> Sch. of Comp. Sci., Zhejiang Univ., Hangzhou 310027, China

<sup>b</sup> Dept. of Comp., Ningbo Univ., Ningbo 315211, China

### Abstract

Product knowledge and S-B-F representation model based on ontology were designed. According to construction principles and methodology of ontology and combined with modeling language OWL of Semantic **Web** Technology, the construction of an ontology-based product knowledge representation model was first discussed. Then following the principles and methods of ontology modeling, the flow ontology and behavior/function ontology in this model were constructed using OWL. A gear pump example was also studied for description using this method. Finally, the application analysis was presented to show the advantage of employing ontology in product knowledge modeling.

### Language of original document

Chinese

### Author keywords


Ontology; OWL; S-B-F; Semantic **web**

### Index Keywords

**Engineering controlled terms:** Artificial intelligence; Computer programming languages; Computer simulation; Gear pumps; Knowledge representation; Mathematical models; Semantics; World Wide **Web**  
**Engineering uncontrolled terms:** Flow technology; Ontology; OWL modeling language; Product knowledge; **Semanti Web**; Structure behavior function  
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