SciVal Experts
January 2012
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SciVal Experts Profiles
Author profiles based on deep publication histories in Scopus

Identify researcher expertise at a quick glance with a visual Fingerprint

Find potential collaborators by accessing a list of experts with Fingerprints similar to another researcher

Access visualizations of each researcher’s co-author network and trends in their work
Pre-populated lists of publications from Scopus

Access accurate, up-to-date lists of publications from the Scopus database
Co-author network visualizations at the researcher & department levels

Connect and collaborate: SciVal Experts make it easy to see opportunities within departments or across institutions
SciVal Experts automatically generates a Fingerprint of the full text inputted by the user, and provides a list of researchers whose Fingerprints are similar to the Fingerprint of the source text.
Find experts across the SciVal Experts Community

Federated search enables user to view a single list of experts across all the participating institutions.
How are profiles created?

The Elsevier Fingerprint Engine™
How we disambiguate authors and publications

- **Automatic process** – algorithm groups authors by key metadata: name, location, journal, topics, co-authors, etc.

- **Manual process** – Elsevier verifies automatic groupings

- Aim is for a **maximization of precision** (accurately matched publications) with a **high level of recall** (breadth of publications returned)
How does the Elsevier Fingerprint Engine work?

1. **Mine Text**
2. **Identify Concepts**
3. **Create Document Fingerprint**

- MeSH
- Compendex
- GeoTree
- GESIS
- and more

- Disorders
  - Uterine Cervical Neoplasms
  - Neoplasms
  - Breast Neoplasms
- Chemicals & Drugs
  - Biological Tumor Markers
  - Papillomavirus Vaccines
  - Aspirin
Creating a researcher’s Fingerprint

Generate a researcher’s unique Fingerprint by aggregating the Fingerprints of each of their publication abstracts.
Identify expertise quickly and easily

Ruffin, Mack T

**Profile**

Based on:

- Publications

**Disorders**

- Uterine fibroids
- Colorectal cancer
- Cervical cancer
- Papilloma
- Neurofibromatosis
- Prostate cancer
- Breast cancer
- Tumor
- Uterus
- Traffic safety
- Uterus, adult
- Colon cancer
- Adenocarcinoma
- Middle age
- Colon cancer, sporadic

**Related Terms**

- Automobiles
- Vision
- Car driving
- Human
- Normal human
- Highway accidents
- Reflectivity
- Perception
- Traffic safety
- Gap Detection Stimuli
- Glare Reduction
- HAZARD-PERCEPTION TIME TO AC...
Fingerprints can be aggregated at various levels

Aggregating researchers’ Fingerprints across organizational units allows for the institution to know what individuals know and what groups know...

• What new publications and grants have been produced?
• What trends have emerged over time?
• Who is working together?
• With what other organizations (internal and external) are we collaborating?

• What do we know?
User Activities in SciVal Experts
Experts+Funding Integration Module
### How does the tool compare to SciVal Funding?

<table>
<thead>
<tr>
<th>Funding tool in SciVal Experts</th>
<th>SciVal Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Recommendations for funding opportunities and collaborators</td>
<td>• Access to a complete database of opportunities and awarded grants</td>
</tr>
<tr>
<td>• Little-to-No action required by the user to receive recommendations</td>
<td>• User sets up profile to receive recommendations</td>
</tr>
<tr>
<td>• Offers less recommendations for opportunities than Funding but more targeted suggestions</td>
<td>• Provides more recommendations for opportunities than the funding tool in Experts – good for browsing</td>
</tr>
<tr>
<td>• Recommendations are based on matched concepts between an opportunity and the researcher’s Experts profile – identified via the Elsevier Fingerprint Engine</td>
<td>• Recommendations are based on matches between an opportunity and the researcher’s Scopus profile – matches are based on eligibility criteria, keywords and subject areas</td>
</tr>
<tr>
<td>• Users can only get recommendations for themselves</td>
<td>• User can get recommendations for other researchers</td>
</tr>
</tbody>
</table>
Relevant funding opportunities and the right collaborators

**SciVal Experts**
Directory of research expertise to **identify experts** and enable collaboration

**SciVal Funding**
Funding intelligence tool providing access to funding opportunities and awarded grants information
- **Searchable database** of +12,000 active opportunities
- +2.25M awards (back to 2004)
- +4,500 funding bodies

**New funding tool within SciVal Experts**
- Matches opportunities in SciVal Funding to profiles in SciVal Experts
- Receive **recommendations for funding opportunities**
- Get **suggestions regarding potential collaborators** for grants
- No action required by the user
- Administrators can email opportunities to researchers, form research teams and track faculty members’ interest in the recommendations

* Coverage of SciVal Funding as of November 11, 2011
New funding tool in SciVal Experts: How it works

1. The Elsevier Fingerprint Engine™ analyzes funding opportunities within the SciVal Funding database.

   A unique Fingerprint is generated for each funding opportunity.

   - NIH AIDS
     - Acquired Immunodeficiency Syndrome
     - HIV Infections
     - HIV
     - Homosexuality
     - AIDS
     - New York City
     - CD4 Lymphocyte Count
     - Ant-HIV Agents

   - Gates Cancer
     - Acquired Immunodeficiency Syndrome
     - HIV Infections
     - HIV
     - Homosexuality
     - AIDS
     - New York City
     - CD4 Lymphocyte Count
     - Ant-HIV Agents

2. Profiles in SciVal Experts are linked to an opportunity’s Fingerprint based on matched concepts.

3. Receive targeted recommendations for funding opportunities and potential collaborators.

   - Opportunity
     - Acquired Immunodeficiency Syndrome
     - HIV Infections
     - HIV
     - Homosexuality
     - AIDS
     - New York City
     - CD4 Lymphocyte Count
     - Ant-HIV Agents

   - Researcher
     - Acquired Immunodeficiency Syndrome
     - HIV Infections
     - HIV
     - Homosexuality
     - AIDS
     - New York City
     - CD4 Lymphocyte Count
     - Ant-HIV Agents

   The weight and number of concepts shared by the profile and funding opportunity dictate the “strength” of a recommendation.

   ★★★ ★★ ★★★
Researchers: Receive e-mail alerts with precise recommendations

Welcome Researcher 1

We have current funding opportunities for you!

There are 2 more funding opportunities for you waiting to be discovered >

Active Living Research: Building Evidence to Prevent Childhood Obesity
Robert Wood Johnson Foundation
USD $150,000.00
Deadline: 08/01/2011

NHGRI Special Populations Research Program Collaborations with Howard University
National Institutes of Health
No amount specified

Click the link to view the opportunity details on the web site

Receive e-mail alerts with targeted funding recommendations to prevent any missed chances for award success.
Researcher view: Recommended funding opportunities

The researcher view displays all of your latest funding recommendations.

Get details on each opportunity, including the sponsor, value, deadline and abstract.

Notify your administrator if you’re interested in the opportunity.
Researcher view: Funding opportunity details

Receive suggestions for collaborators with whom to pursue the grants and form new partnerships by emailing other researchers from within the tool.

Click on a potential collaborator’s name to access his or her profile in SciVal Experts.

Hi, Harry G McKee
Researcher 1 wants to contact you

Click the mail icon to send email to other faculty.
Researcher view: Adjustable Fingerprint

Researchers can customize their Fingerprint to tailor their funding opportunities based on their areas of interest.

Modify the weight of concepts in your Fingerprint

Add new concepts to your Fingerprint

Researchers can customize their Fingerprint to tailor their funding opportunities based on their areas of interest.
User Activities in Experts+Funding Integration
Profile Enhancer Module
Where can SciVal Experts profile data come from?

**External Data**
- Scopus® publication data provided by Elsevier

**Institutional Data**
- Content residing in institution’s database(s) with a pre-existing structure

**Individual Data**
- Additional content added by an individual user
Enabling users to input profile data

**Objective:** Add extra publication data not already covered in your profile.

**How it works:** User or their delegates enter information into forms provided within the tool.

**Outcome:** Data appears in profile and is Fingerprinted – coming soon.

**What types of content can I add now?**
- Journal articles
- Book titles
- Book chapters
- Meeting abstracts

*This tool is currently in beta*
Initial Staging Site for MSU Profiles:

http://staging.experts.scival.com/msu
SciVal Funding Site – Not integrated with SciVal Experts:

http://staging.experts.scival.com/msu
Q & A