The College of Medicine and the Center for Clinical and Translational Science are pleased to provide SciVal Experts to the health sciences community at The Ohio State University. SciVal Experts is designed to promote collaboration among faculty, regardless of organizational affiliation. Whether using this tool to find expertise, understand collaborative relationships or track publications, we expect use of this tool to advance the research mission promise of improving people’s lives.

Outline

SciVal Experts Layout and Interface

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SciVal Experts Layout and Interface

There are five main levels in SciVal Experts:
1. Organization/Home Page
2. Department/Unit
3. Individual Researcher
4. SciVal Experts Community/DIRECT2Experts
5. Publications

Within the units and the individual research profiles, there are a variety of data tools utilizing information from the publications:
1. Research Profile
2. Institutional Network
3. Research Network
4. Research Trends
5. Similar Experts
6. Coauthor Network

Layout and Interface

1) Organization/Home Page: The SciVal Experts home page provides quick access to profiled units at Ohio State. Academic units are aggregated on the home tab under the Colleges and Departments tab. Click on any college name to drill down to the departments profiled in that college. Non-academic units are aggregated under the Centers and Institutes tab. Click on any unit for more detailed information. Users may also search by concept, last name, or free text in the upper right corner of the screen.
2) Department/Unit: From the home page, click on a unit to access a profile of the entire unit. Each unit’s page provides a snapshot of the unit’s Research Profile, including a list of the profiled faculty, the top ten concepts associated with the unit, recent Scopus publications and some of the unit’s institutional collaborators. Click on an item from the menu on the left-hand side of the screen to view information about the department, including its complete research profile, publications and institutional network.

Note that unit-level profiles are available only for units for which all faculty have been profiled. College-level units for fully profiled colleges are available—see “College of…” in the listing of departments for a particular college.
3) **Individual Researcher:** To view the profile of an individual researcher, click the author’s name on the department page or search by last name in the upper right corner of the screen. The researcher’s overview page includes a snapshot of all of the information contained in the researcher’s profile. From this page, you can view concepts in which the researcher has an expertise, access their Scopus publications, and identify other researchers with whom they’ve collaborated. The menu on the left-hand side of the screen allows exploration of each of these sections in more detail, including the researcher’s list of Scopus publications, coauthor relationships, and similar experts within the institution (both coauthors and non-coauthors).
4) **SciVal Experts Community/DIRECT2Experts**: From the home page, you can also search across institutions. The SciVal Experts Community feature enables users to search for experts across other SciVal Experts applications. The DIRECT2Experts feature allows users to identify experts at other institutions that are part of the DIRECT2Experts network, a pilot project facilitated by the Clinical & Translational Science Award Consortium, which is supported by the National Institutes of Health. Individual institutions’ expertise systems are directly accessible from this level as well.
5) **Publication/ Grant**: Click on an individual publication to access additional details, including the abstract, when available, and a link to the article in Scopus. PMID and PMCID are listed. Further down the page the Scientific Context section shows related topics, experts, and publications. Authors profiled in the system are hyperlinked to their individual profiles.

To export a list of publications to EndNote, select the publication(s) (or use the “Select All” box) and the calendar year of interest. The selected items will be exported automatically to EndNote.

Within an individual’s publication list, publications can be sorted by the year published or the number of citations by clicking the header on the right.
Tools

1) **Research Profile:** The research profile for an individual or a unit is the “fingerprint,” a visual representation of the concepts expressed in the publications for that unit or individual. At the unit level, it represents the collective expertise and experience of the entire department.

The publications supporting the inclusion of a term are available by clicking the “+” next to a term, and each publication can be directly accessed. Click on the concept itself to run a search to find other experts associated with that concept.
2) **Institutional Network**: Use this tool to view the internal and external organizations with which the unit or individual has collaborated, based on co-authorships. The number of publications shared is noted on the right, and the publications themselves can be accessed by clicking the “+” next to the organization of interest.
3) Research Network: The Research Network is a dynamic visualization of the co-author relationships for an individual researcher or within a department. Access it from the left-hand menu or by clicking the button on the left.
Each circle represents a researcher, and the lines connecting the circles represent shared publications. Click anywhere to pause the graphic and the “Play” arrow in the upper right corner to resume the reshaping of the visualization. Hover over the graphic to attach names to the circles. Clicking the circle for an individual will return that researcher’s profile at the bottom of the page. Click a connecting line to display the shared publications.
4) **Research Trends**: The research concepts captured in the fingerprint of a unit or an individual and are the most significantly present over the last ten years are captured in a graphic that shows the number of publications including the chosen concept over time. Access “Research Trends” from the menu on the left side or by clicking the large button on the left of the unit or individual profile. Note that this feature is called “Trends” in the individual researcher’s profile.
Use the slider under the graphic to filter the time period. Any concepts can be deleted from the graphic by unchecking the box next to the concept in the section below the graphic. The concepts are color-coded and are matched to the concepts listed under the graphic. The concept and the number of publications in that year will appear when you hover over the graphic.
5) **Similar Experts**: SciVal Experts compares the profile of an individual researcher with other profiles at Ohio State and returns those individuals who have overlapping profiles. “Similar Experts” are available within the individual researcher’s profile, and are grouped into two categories. “Non-coauthors” are those individuals who have not co-authored a publication with the individual. “Coauthors” share publications, and are thus current collaborators.

“Similar Experts” is a tool available only at the level of the individual researcher.

6) **Coauthor Network**: The “Coauthor Network” displays an individual researcher’s coauthors, both internal and external. Shared publications can be accessed by clicking the “+” to the left of a coauthor. The number of shared publications is available to the right. Click on an internal coauthor’s name to jump to that collaborator’s profile.
How Do I Use SciVal Experts?

Search Feature

The search box is available at the top of each SciVal Experts page. Search by concepts, last name, or using free text by selecting the appropriate category under the text box.

“By Concept” will return concepts that match the entered term. Different term sets may be returned as well, if the concept appears in different fields, such as “Medicine & Life Sciences” and “Agriculture & Biology.”

“By Free Text” is most useful for very large entries, such as the text of purpose of a funding opportunity announcement. The application will generate a new profile of your entry and match it to profiles of individuals.

Profile Management and Information

How is My Profile Created?
Publications in your profile are pulled from Scopus, the largest abstract and citation database of peer-reviewed literature. With over 19,500 titles from more than 5,000 international publishers, Scopus offers researchers a quick, easy and comprehensive resource to support their research needs in the scientific, technical and medical fields as well as in the social sciences. Note that publications appearing in journals not catalogued by Scopus will not appear in your profile. You can suggest the addition of such journals at http://www.info.sciverse.com/scopus/scopus-in-detail/content-selection.

How Do I Navigate My Profile?
Access your profile by conducting a search by last name
1. Click on “By Last Name” underneath the search box at the top-right side of the screen.
2. Input your last name in the search engine.
3. Select your name from the list provided.

Track your publication history
1. Click “Publications” in the left-hand menu to access a list of your publications from Scopus.
2. Click on any of the publications to access the publication details.

Review your unique research fingerprint
1. Click “Profile” in the left-hand menu to access your “Research Fingerprint,” which shows key concepts across the content that makes up your publication profile.
2. The length of the bars indicates the significance of each term relative to all your research concepts, adding stronger weight to those concepts that are more unique.
3. Click on the plus symbol to the left of any of the concepts to see which publications caused the chosen term to appear.
4. Click on the concept itself to run a search for other researchers at your institution who have focused on the same concept in their own work.
Explore additional tools and resources
Within each profile, you can also access an inventory of journals in which you have published, a list of similar experts, and detailed views of your coauthor and institutional networks. In addition, you can access interactive visualizations to identify trends in your research output over time and explore relationships in your coauthor network.

How Do I Navigate My Coauthor Network?

Access a list of your coauthors.
1. From your profile, click “Co-author Network” in the left-hand menu to access a list of your coauthors inside and outside your institution. To the right of each researcher’s name you’ll find the number of shared publications and a histogram showing the author’s research output over time.
2. Click on the plus symbol to the left of a researcher’s name to access the publications you coauthored.
3. Click on an internal coauthor’s name to access his or her profile.

Access an interactive visualization of your coauthor network.
1. From your profile, click “Research Network” in the left-hand menu to access a map of your coauthor network.
2. The visualization continually reshapes itself to find the best view. Click anywhere in the box to pause the visualization.
3. The red circle represents you, the profiled researcher. The purple circles represent your internal coauthors. The larger the circle, the more publications that researcher has produced. The lines connecting two researchers represent papers that they have published together. The thicker the line, the more shared publications.
4. Click on a line connecting two researchers to see which papers they published together.
5. Scroll over a circle to bring up the researcher’s name. Click on the circle and scroll down the page to access a list of the top ten concepts across the content that makes up the researcher’s profile, such as publications or grants. Here you can also access a list of the author’s most recent publications or grants.
6. Click on the researcher’s name to access his or her profile. From within their profiles you can explore their own coauthor networks to identify potential collaborators.

I noticed an error in my publication list. How do I correct this?

On your profile page, under your affiliations on the left, click on the “Help us refine your profile” link to access a web form for reporting an issue to Elsevier. Elsevier will respond to your request for assistance by email. Note that only publications that appear in Scopus are available in SciVal Experts.

Finding Expertise

How do I search for experts in a particular concept?
1. Input the concept in the search engine at the top of any page. You can also click on any concept throughout the tool to instantly search on that term.
2. Select the specific concept from the list of related terms provided.
3. The list of researchers is organized in order of the relevance of the concept to each author’s publication history in Scopus. To the right of each researcher’s name is the number of publications the author has produced.
4. SciVal Experts also provides you with a list of additional concepts that appear in conjunction with your original search term to help you narrow your search. Add or remove concepts to refine your search.
5. Click on the plus symbol to the left of the researcher to access his or her publications associated with the concept or group of concepts you searched.
6. Click on the researcher’s name to access his or her profile.
7. To access researchers in the SciVal Experts Community or DIRECT2Experts, click those options under “Find the Expert.” Click the researcher’s name to access his/her institution’s SciVal Experts application or other research networking tool.

How Can I Find Experts Similar to Me?

In addition to searching by concept in SciVal Experts, you can also identify potential collaborators by using the “Similar Experts” feature.

1. Pull up your own profile and click on the “Similar Experts” link on the left.
2. SciVal Experts shows researchers in your institution whose fingerprints closely resemble yours, categorized as coauthors and non-coauthors.
3. Click on a researcher’s name to access his or her profile, where you can view the researcher’s fingerprint, publication history, and his or her own list of similar experts.

How Can I Find Experts Outside of My Institution?

You can search for external experts in two external networks. The SciVal Experts Community is available to all organizations that have adopted SciVal Experts. DIRECT2Experts includes institutions that participate in a pilot project facilitated by the Clinical & Translational Science Award Consortium, which is supported by the National Institutes of Health. Whereas the SciVal Experts Community consists of SciVal Experts customers, DIRECT2Experts links different research networking systems together. Both networks are available to all organizations that have adopted SciVal Experts. Each institution determines if they will participate in DIRECT2Experts or the SciVal Experts Community. The Ohio State University Health Sciences has chosen to participate in both.
Search for potential collaborators across the SciVal Experts Community.
1. From the homepage, click SciVal Experts Community in the left-hand menu.
2. Search by concept, last name or free text, as outlined previously.
3. SciVal Experts provides you with a list of researchers at other institutions that have their own SciVal Experts site.
4. Click on a researcher’s name to access his or her profile.
5. You can also run a search from any page within SciVal Experts to access a list of experts in the SciVal Experts Community. On the results screen, simply click on Community.

Find experts across the DIRECT2Experts network
1. From the homepage, click DIRECT2Experts in the left-hand menu.
2. Search by concept, last name or free text, as outlined previously.
3. If searching by free text, after you paste the text into the search box and click Find, select one or more concepts from the fingerprint provided to complete your search.
4. SciVal Experts provides you with a list of the institutions that are part of the DIRECT2Experts Network.
5. To the right of each institution is the number of experts in the organization associated with your search criteria.
6. Click on an institution to access the researcher profiles in the organization’s own profile system.
7. You can also run a search from any page within SciVal Experts to access a list of experts in the DIRECT2Experts network. On the results screen, simply click on DIRECT2Experts.

How Can I Learn About an Individual’s Research Activities?

Access the researcher’s profile by conducting a search by last name
1. Click on By Last Name underneath the search box at the top-right side of the screen.
2. Enter the last name of the researcher you are searching for.
3. Select the researcher from the list provided to view his or her profile.

Review a researcher’s publication history
1. Click Publications in the left-hand menu to view the author’s list of publications from Scopus.
2. Click on any of the publications to access the publication details.

Access trends in the researcher’s activities over time
1. Click Trends in the left-hand menu to access the researcher’s Trend chart, which shows how the author’s research interests have evolved over time. This visualization presents the most significant concepts appearing in the researcher’s work.
2. The height of each colored line represents the number of publications including the concept for a particular year. The chart shows the emergence of new research topics and changes in publication volume about these topics from year to year.
3. You can adjust this visualization to focus on a specific period of time or add and remove concepts using the checkboxes below the chart.
How Can I Find the Right Researchers/Collaborators For a Funding Opportunity?

You can identify potential collaborators for a funding opportunity by searching for experts in a specific concept, outlined earlier in this guide, or by conducting a free text search.

By conducting a free text search, SciVal Experts generates a fingerprint of the text and matches it against the fingerprints of researchers in your institution. This can be done with any Request for Application, Program Announcement, call for proposal, funding announcement, abstract, or other text you may have available.

1. Copy the text from the source document.
2. Within SciVal Experts click on “By Free Text” below the search box. This opens up the free text search engine.
3. Paste the text into the search box, select a vocabulary for the analysis based on the type of researcher you are looking for, and click Find.
4. SciVal Experts provides you with a list of experts whose research output overlaps with the fingerprint generated from the text.
5. To the right, you can view the Fingerprint and tailor your search by changing the weight of concepts, making certain concepts an absolute requirement, more or less important, or removing them entirely.
6. As you modify your search criteria, SciVal Experts refines the list of experts.