



Establishing the European Geological Surveys Research Area to deliver a Geological Service for Europe

JOINT CALL DOCUMENT NO.8D

QUALIFICATION PROFILE OF EXPERT PANEL MEMBERS

Stage Two - Project Proposals

Joint Call on applied geoscience in the fields of:

- Geo-energy
- Groundwater
- Raw materials
- Information platform

Version no. 1

Last change 30 April 2017 20:23



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731166

Qualification profile of expert panel members

The evaluation of proposals submitted for the GeoERA Stage Two Call for projects will be carried out by Independent Experts in two steps:

1. An initial written review by **Technical Experts**
2. An final review by an **Expert Panel** who will meet face-to-face for evaluation and ranking of the proposals

Experts will be selected from the international community, for the Technical Experts with a focus on the proposals, and for the Expert Panel with a focus on the themes and cooperation and tasks of geological surveys , as indicated by the GeoERA Executive Board.

The Experts must all fulfil the following criteria:

- High professional expertise in at least one of the themes Geo-energy, Groundwater, Raw materials, or Information Platform as evidenced by a recognized track record;
- Knowledge and experience in the exploitation and transfer of research outcomes to society, industry and policy;
- Experiences with international cooperation in science and technology;
- Familiar with the tasks of Geological Survey Organisations;
- Possess language skills appropriate for reading and understanding proposal text in English.

NWO will seek a balance in geographical diversity, age, and gender. Besides, a balance between academics and experts with industrial or other relevant experience will be secured. The experts will be chosen to avoid potential conflict of interest according to the NWO code of conduct on Conflict of Interest. NWO takes all reasonable steps to ensure that experts will not be faced with a conflict of interest between their own research/business interests, and their evaluation activities of GeoERA project proposals. All Experts must abide by and sign the Code of Conduct and Declaration prior to beginning any evaluation..

All Independent Experts will be selected by the Netherlands Organisation for Scientific Research (NWO) using international databases, such as ExpertLookup. A description of the process of selection of Experts is described in NWO Staff Manual Chapter 8 (Annex A)

Technical Experts:

Each proposal will be reviewed in a written procedure by at least three technical experts.

These will be selected using the same criteria as the Independent Experts, but with a narrower focus and deeper knowledge on the specific topics of the individual proposals (rather than the call).

Expert Panel:

For the second step the Expert Panel will consist of up to 12 persons. Each proposal, with its technical reviews, will be evaluated by at least three appropriate members of the Expert Panel. The panel will provide the ranking of the proposals in each of the themes and will advise the GeoERA Executive board, which in turn will advise the GeoERA General Assembly on the project to fund under GeoERA.

Annex A –

NWO staff manual - Translation of Chapter 8

Method 8: Expert Lookup

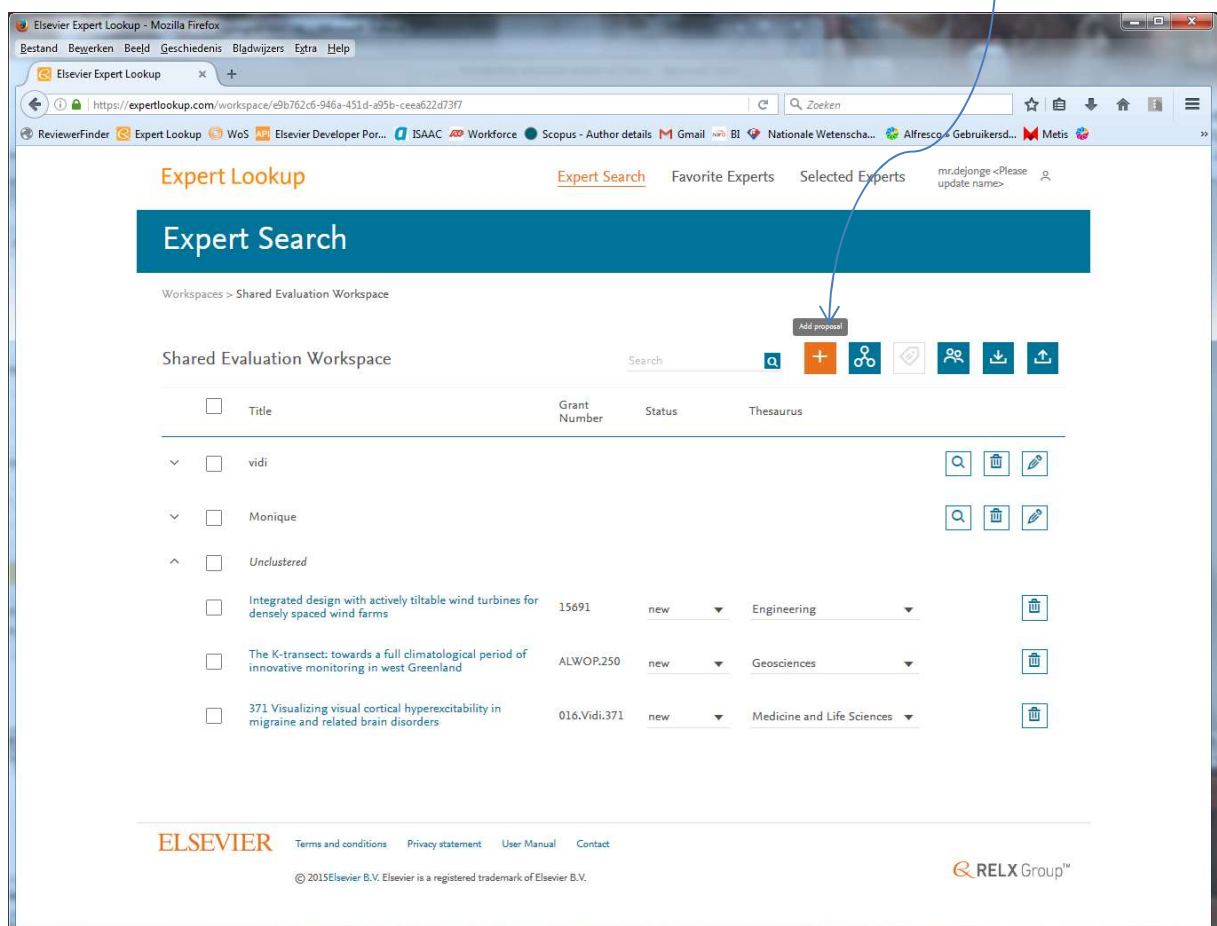
- Search portal: <https://expertlookup.com/NWO>
- Login: Username and password through application manager

Expert Lookup is the updated version of Elsevier Reviewerfinder (Chapter 6). Elsevier has based the application on their Scopus literature database covering papers, books and professional publications (<https://www.elsevier.com/solutions/scopus/content>). This is a web-based application specifically aimed at finding experts for peer-review. Expert Lookup uses the same fingerprinting and thesaurus as Reviewerfinder. It is important to offer a piece of text to develop a fingerprint; this can be the abstract, the proposal, or other relevant texts. It implements a text-recognition algorithm to search for related publications, as opposed to author-recognition as many other tools do. The result is that Expert Lookup, in theory, will be able to query outside the citation-network of author compared to other strategies (chapters 1-5).

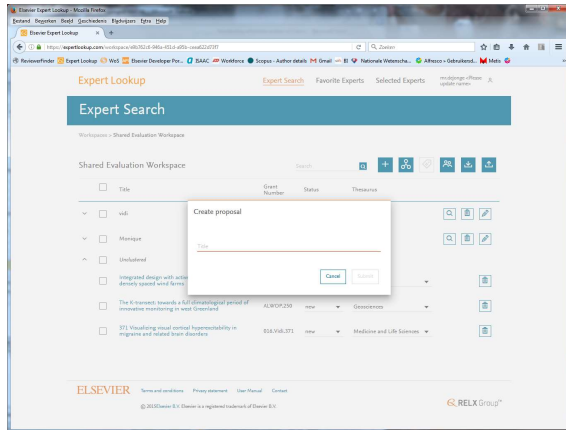
On top of that the application offers an automatic check on professional conflict of interest between applicants and potential reviewers. This increases the probability of finding less close cooperating reviewers and a more objective assessment of proposals.

Step 1

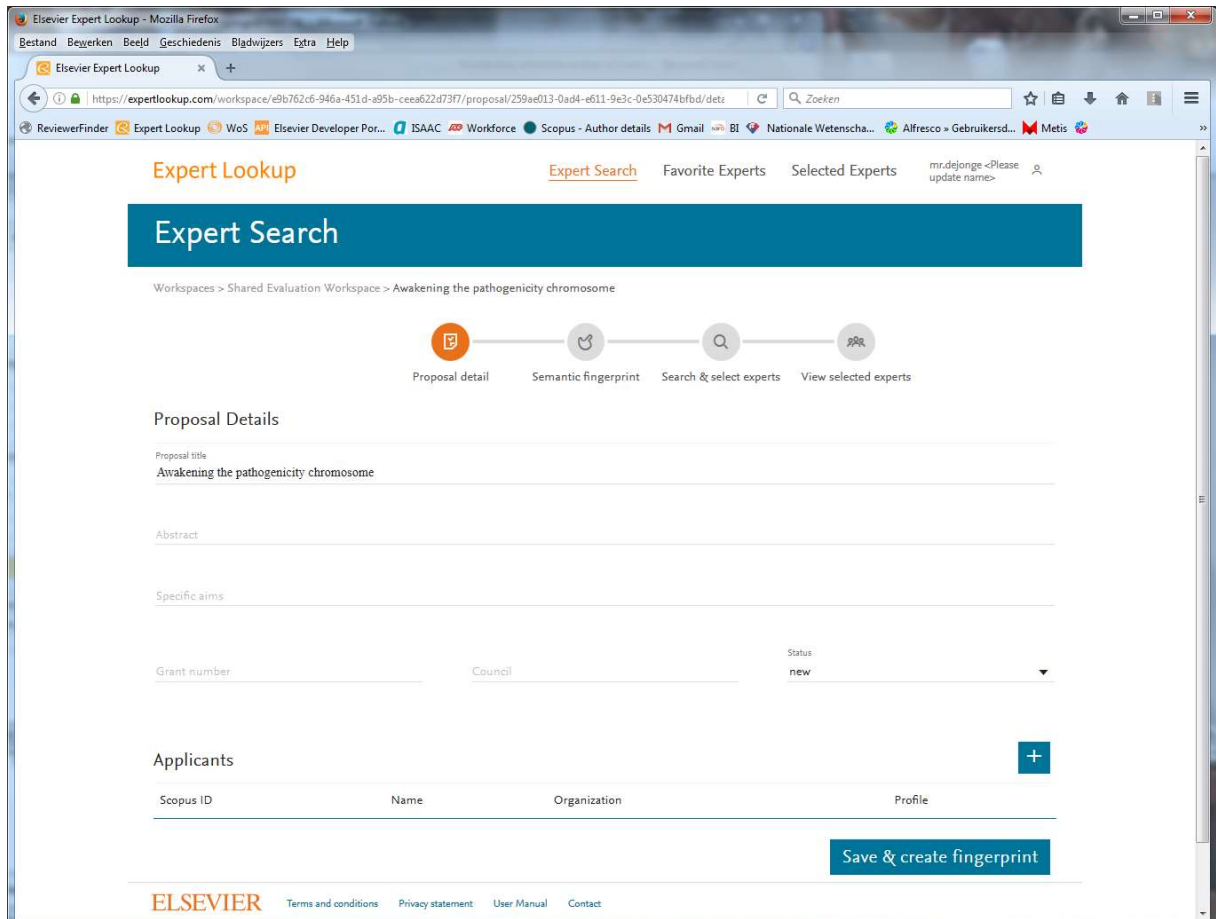
After logging in a new search can be initiated by selecting the '+' sign 'Add Proposal':



The first dialog asks for the title of the project:



And subsequently an entry screen in which you can enter abstract, keywords, file-number and (co)applicants). The orange 'breadcrumbs' allow for easy navigation through the application (from entry to search).

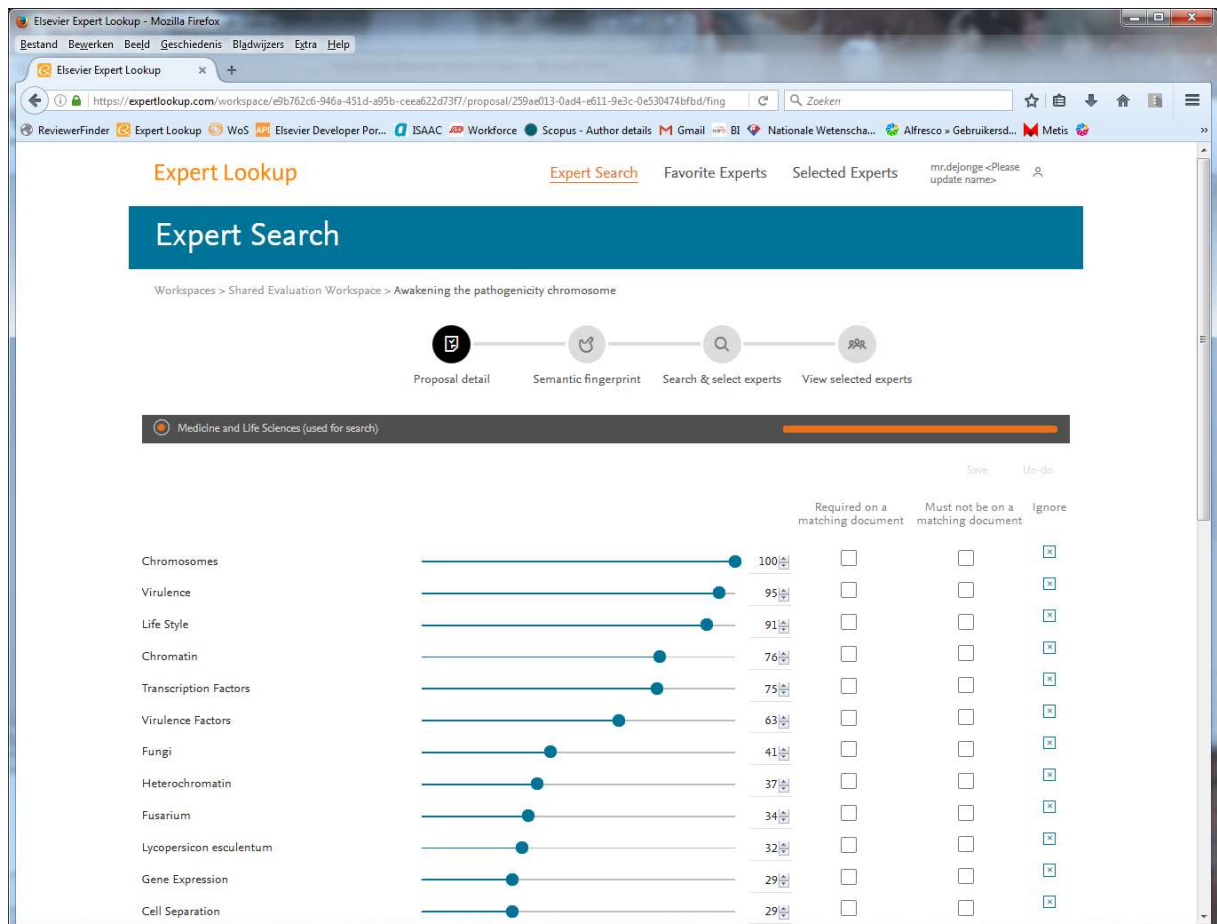


Note that the Title is important: If the applicant use a play on words it may be better to provide a few key-concepts. The software has no sense of humor and regards the title as leading for the subject matter.

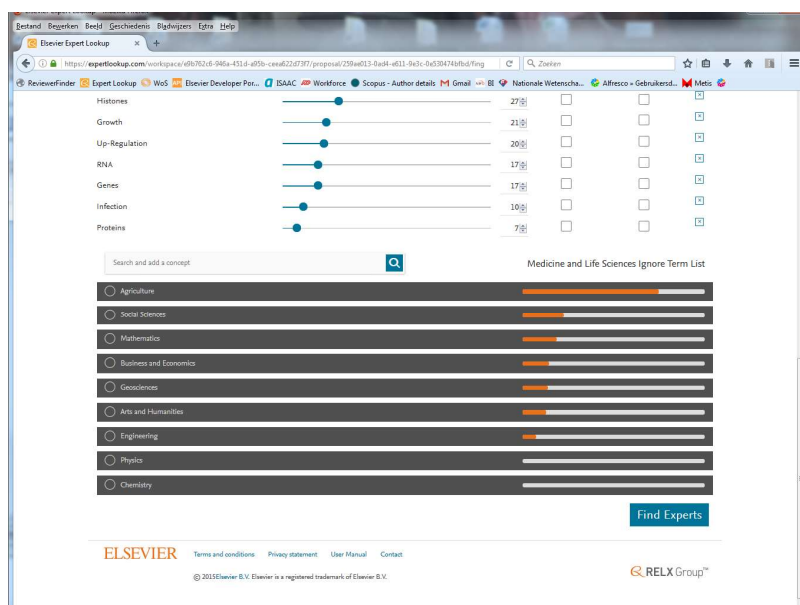
The 'Specific Aims' block is treated in the same manner as the abstract to generate the fingerprint. Click on 'Save Grant Data...' immediately after entering the data to generate the fingerprint (and to prevent losing all data due to a time-out).

Step 2

After 'Save Grant ...' a new screen is shown with as (preliminary) fingerprint and some additional fields:



The best fitting fingerprint is shown, but also the score using a different thesaurus is computed (orange bar show the relative matching):



Step 3

By choosing 'Find Experts' a list of potential reviewers is generated:

Awakening the pathogenicity chromosome
H. Charlotte Van Der Does

200 experts based on Medicine and Life Sciences thesaurus

<input type="checkbox"/> Rank	Name	Institution	Matching pub.	First author	Last author	Total pub.	h-index	Potential COI	Assign Expert
<input type="checkbox"/>	Michael Freitag	Oregon State Unive...	8	0	2	69	33	Yes	No
<input type="checkbox"/>	Kazuhiro Maeshima	Sokendai Graduate ...	8	2	6	53	22	No	No
<input type="checkbox"/>	Yasumasa Joti	Japan Synchrotron ...	5	2	2	51	13	No	No
<input type="checkbox"/>	Job Dekker	University of Massa...	5	1	2	114	47	No	No
<input type="checkbox"/>	Hideaki Takata	Osaka University	5	2	0	30	13	No	No
<input type="checkbox"/>	Jessica L. Soyer	Christian-Albrechts...	4	3	0	5	2	Yes	No
<input type="checkbox"/>	Karl Ekwall	Karolinska Institutet	4	0	3	91	35	Yes	No
<input type="checkbox"/>	Lanelle R. Connolly	Oregon State Unive...	4	0	0	12	8	Yes	No
<input type="checkbox"/>	Takaaki Hikima	Riken	4	0	0	41	10	No	No
<input type="checkbox"/>	Édith Heard	Genetique et Biolo...	4	0	3	117	48	No	No

For each potential reviewer the number of matching publications is shown, and some additional metrics. Clicking the arrow left of the name show a list of matched publications.

Awakening the pathogenicity chromosome
H. Charlotte Van Der Does

200 experts based on Medicine and Life Sciences thesaurus

<input type="checkbox"/> Rank	Name	Institution	Matching pub.	First author	Last author	Total pub.	h-index	Potential COI	Assign Expert
<input type="checkbox"/>	Michael Freitag	Oregon State Unive...	8	0	2	69	33	Yes	No

View in Scopus Search the web for Michael Freitag

Matching publications

- 2016 *Neurospora chromosomes are organized by blocks of importin alpha-dependent heterochromatin that are largely independent of H3K9me3*
Galazka, J.M., | Klokos, A.D., | Uresaka, M., | Honda, S., | Selker, E.U., | ... | Freitag, M.
Matched fingerprints (weight): Chromatin (1) | Heterochromatin (0.37) | Histones (0.27)
- 2015 *Histone modifications rather than the novel regional centromeres of Zygomycetes tritici distinguish core and accessory chromosomes*
Schotanus, K., | Soyer, J.L., | Connolly, L.R., | Grandaubert, J., | Happel, P., | ... | Freitag, M.
Matched fingerprints (weight): Chromatin (1) | Chromosomes (1) | Fungi (0.41) | Heterochromatin (0.37) | Histones (0.27)
- 2015 *Chromatin analyses of Zygomycetes tritici: Methods for chromatin immunoprecipitation followed by high-throughput sequencing (ChIP-seq)*
Soyer, J.L., | Möller, M., | Schotanus, K., | Connolly, L.R., | Galazka, J.M., | ... | Freitag, M.
Matched fingerprints (weight): Chromatin (1) | Heterochromatin (0.37) | Histones (0.27) | Virulence (0.95)
- 2014 *Variability of chromosome structure in pathogenic fungi-of ends and odds*
Galazka, J.M., | Freitag, M.
Matched fingerprints (weight): Chromatin (1) | Chromosomes (1) | Fungi (0.41) | Histones (0.27)
- 2014 *Epigenetic control of effector gene expression in the plant pathogenic fungus Leptosphaeria maculans*
Soyer, J.L., | El Ghaili, M., | Glaser, N., | Oliver, B., | Linglin, J., | ... | Freitag, M.
Matched fingerprints (weight): Chromatin (1) | Fungi (0.41) | Heterochromatin (0.37) | Histones (0.27) | Life Style (0.91)
- 2013 *Two histone deacetylases, Efd1a1 and Efd1a2, are important for Equisetum telmateia secondary*

and below this list an overview is given of "Co-author competing Interests" if the "potential COI" column shows "Yes":

The screenshot shows the Elsevier Expert Lookup interface. On the left, there are filters for Thesaurus, h-index, Countries, Groups of experts, Publications, Journals, and Conflict of Interest. The main area displays a list of experts. The first expert is Michael Freitag, with a 'Potential COI' status of 'Yes'. A blue arrow points from the text above to the 'Potential COI' column header. Below the list, there is a section for 'Co-author competing interests' showing a publication co-authored by Michael Freitag and H. Charlotte Van Der Does.

Rank	Name	Institution	Matching pub.	First author	Last author	Total pub.	h-index	Potential COI	Assign Expert
1	Michael Freitag	Oregon State Unive...	8	0	2	69	33	Yes	No
2	Kazuhiro Maeshima	Sokendai Graduate ...	8	2	6	53	22	No	No
3	Yasumasa Joti	Japan Synchrotron ...	5	2	2	51	13	No	No
4	Job Dekker	University of Massa...	5	1	2	114	47	No	No
5	Hidesaki Takata	Osaka University	5	2	0	30	13	No	No
6	Jessica L. Soyer	Christian-Albrechts...	4	3	0	5	2	Yes	No
7	Karl Ekwall	Karolinska Institutet	4	0	3	91	35	Yes	No
8	Lanelle R. Connolly	Oregon State Unive...	4	0	0	12	8	Yes	No

In this example Van der Does has published once together with Freitag (details shown when you click on the number of potential COI's). The NWO-rules for COI are given at: <https://www.nwo.nl/en/documents/nwo/legal/nwo-code-of-conduct-on-conflicts-of-interest>
Default settings are ok for single applicants, but care must be taken in case of larger consortia (second-degree authorship relations can be selected in the left-hand panel)

The screenshot shows a pop-up window titled 'Publications co-authored by Michael Freitag and H. Charlotte Van Der Does'. It lists a publication from 2010: 'Comparative genomics reveals mobile pathogenicity chromosomes in Fusarium'. The authors listed are Ma, L.-J., Van Der Does, H.C., Borkovich, K.A., Coleman, J.J., Daboussi, M.-J., ..., Freitag, M. There is a 'Close' button in the bottom right corner.

By selecting "assign Expert" for all non-blocking potential COI's they are added to the working list. The sample below shows that for three nnames.

<input type="checkbox"/>	Rank	Name	Institution	Matching pub.	First author	Last author	Total pub.	h-Index	COI	Assign Expert
^	<input type="checkbox"/>	Michael Freitag	Oregon State Univ...	8	0	2	69	33	Yes	<input type="radio"/> No
<div> View in Scopus Search the web for Michael Freitag </div> <div> Matching publications </div> <div> Co-author competing interests </div> <div> Michael Freitag and H. Charlotte Van Der Does co-authored 1 publication </div>										
∨	<input type="checkbox"/>	Kazuhiro Maeshima	Sokendai Graduate ...	8	2	6	53	22	No	<input checked="" type="radio"/> Yes
∨	<input type="checkbox"/>	Yasumasa Joti	Japan Synchrotron ...	5	2	2	51	13	No	<input checked="" type="radio"/> Yes
∨	<input type="checkbox"/>	Job Dekker	University of Massa...	5	1	2	114	47	No	<input checked="" type="radio"/> Yes
∨	<input type="checkbox"/>	Hideaki Takata	Osaka University	5	2	0	30	13	No	<input type="radio"/> No

The list can be inspected by choosing "View Selected Experts":

Expert Lookup

Expert Search Favorite Experts Selected Experts

Workspaces > Shared Evaluation Workspace > Awakening the pathogenicity chromosome

Proposal detail Semantic fingerprint Search & select experts View selected experts

Selected Experts

Name	Proposal count	Email	Phone number
Kazuhiro Maeshima	1		
Yasumasa Joti	1		
Job Dekker	1		

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The fastest way to approach reviewers is by using the "Export" button to generate a list of Scopus ID's and search those through Scopus (See chapter 7). Of course you can also search for recent contact details through Google Scholar etc.

Tuning of search results

For selecting better search results the filter can be modified. With additional criteria for country, H-index, number of publications, type of publication, etc. Also some controls are given for the COI testing criteria.

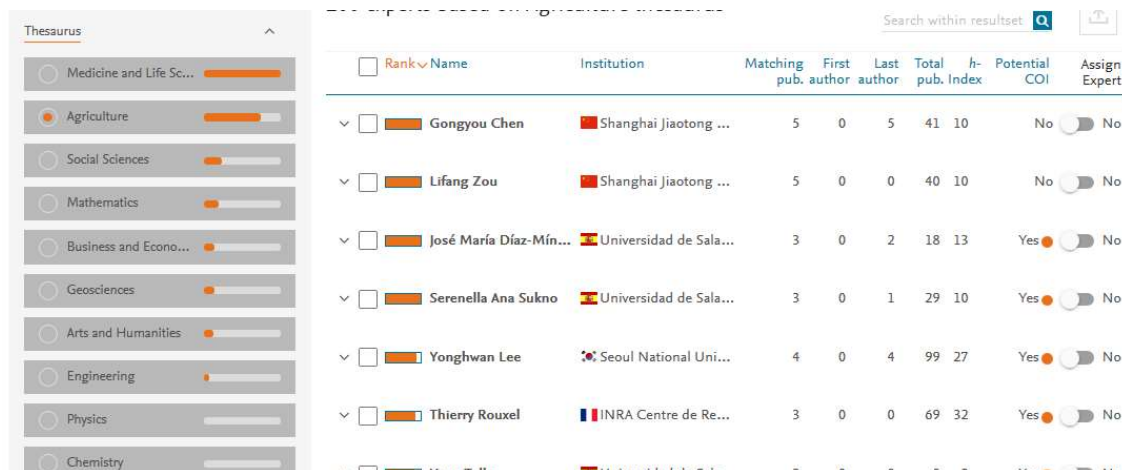
The screenshot shows the Elsevier Expert Lookup interface in a Mozilla Firefox browser. The URL is <https://expertlookup.com/workspace/e9b762c6-946a-451d-a95b-eea622d73f77/proposal/259ae013-0ad4-e611-9e3c-0e530474bfbd/s>. The page title is 'Elsevier Expert Lookup - Mozilla Firefox'. The breadcrumb trail is 'Workspaces > Shared Evaluation Workspace > Awakening the pathogenicity chromosome'. The main navigation bar includes 'Proposal detail', 'Semantic fingerprint', 'Search & select experts', and 'View selected experts'. The search results are for 'Awakening the pathogenicity chromosome' by H. Charlotte Van Der Does. The results are based on the 'Medicine and Life Sciences thesaurus'. A table lists 200 experts, with the following columns: Rank, Name, Institution, Matching, First pub. author, Last pub. author, Total pub. Index, Potential COI, and Assign Expert. The table shows 10 experts, each with a checkbox, a flag, a name, an institution, and various metrics. The 'Assign Expert' column has 'Yes' or 'No' buttons.

Rank	Name	Institution	Matching	First pub. author	Last pub. author	Total pub. Index	Potential COI	Assign Expert
1	Michael Freitag	Oregon State Univ...	8	0	2	69 33	Yes	No
2	Kazuhiro Maeshima	Sokendai Graduate ...	8	2	6	53 22	No	Yes
3	Yasumasa Joti	Japan Synchrotron ...	5	2	2	51 13	No	Yes
4	Job Dekker	University of Massa...	5	1	2	114 47	No	Yes
5	Hideaki Takata	Osaka University	5	2	0	30 13	No	No
6	Jessica L. Soyer	Christian-Albrechts...	4	3	0	5 2	Yes	No
7	Karl Ekwall	Karolinska Institutet	4	0	3	91 35	Yes	No
8	Lanelle R. Connolly	Oregon State Univ...	4	0	0	12 8	Yes	No
9	Takaaki Hikima	Riken	4	0	0	41 10	No	No

The screenshot shows the 'Conflict of Interest' filter section. It includes a dropdown menu for 'Conflict Publication Year Cut-Off' with the value '2012'. Below this is a section for 'Co-authoring distance' with a dropdown menu set to 'Direct or One person in-between'. There is also a section for 'Organization conflict' and an 'Important' checkbox. The 'Apply filter' button is at the bottom.

Thesaurus selection

ExpertLookup always shows hits on different thesauri. Sometimes it is useful to select another list than the first hit from the text recognition. Especially when the abstract contains a lot of poorly distinguishing keywords. You also find a different population experts that way (eg. switching between Life-Sciences and Agriculture, or Geosciences and engineering).



The screenshot shows the ExpertLookup interface. On the left, a 'Thesaurus' panel lists various fields with sliders indicating their selection level. 'Agriculture' is selected. On the right, a table displays a list of experts with their profiles, institutions, and various metrics.

<input type="checkbox"/> Rank	Name	Institution	Matching pub.	First author	Last author	Total pub.	h-Index	Potential COI	Assign Expert
✓ <input type="checkbox"/>	Gongyou Chen	Shanghai Jiaotong ...	5	0	5	41	10	No	No
✓ <input type="checkbox"/>	Lifang Zou	Shanghai Jiaotong ...	5	0	0	40	10	No	No
✓ <input type="checkbox"/>	José María Díaz-Mín...	Universidad de Sala...	3	0	2	18	13	Yes	No
✓ <input type="checkbox"/>	Serenella Ana Sukno	Universidad de Sala...	3	0	1	29	10	Yes	No
✓ <input type="checkbox"/>	Yonghwan Lee	Seoul National Uni...	4	0	4	99	27	Yes	No
✓ <input type="checkbox"/>	Thierry Rouxel	INRA Centre de Re...	3	0	0	69	32	Yes	No
✓ <input type="checkbox"/>	Vanesa Tello	Universidad de Sal...	2	0	0	5	2	Yes	No

Note:

See also chapter 9 for verification that the level of expertise is relevant for the proposal and chapter 10 on COI.