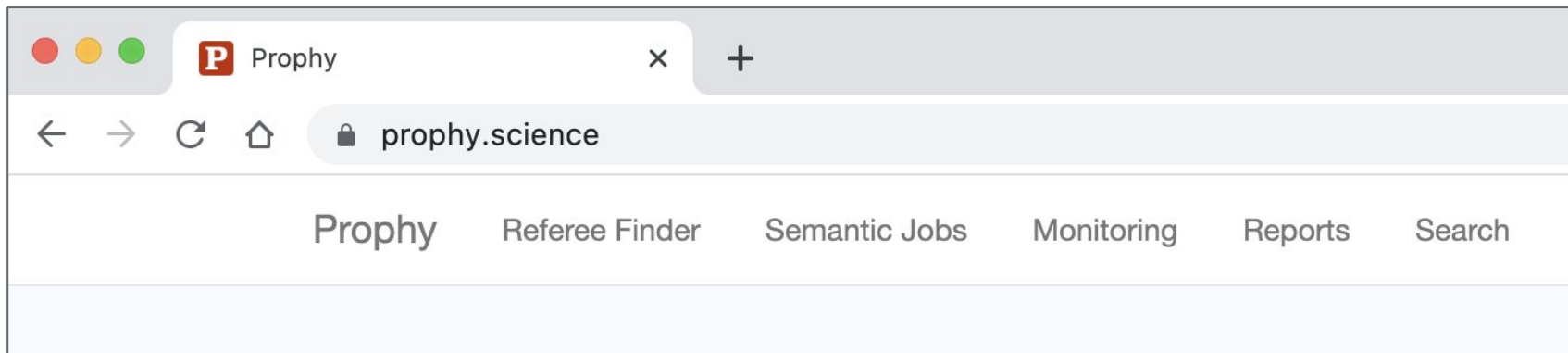




# Prophy HOWTO

Prophy Inc.  
2021

# Main access panel



Access to all tools starts from the top-most panel

# Semantic search



Search - Prophy

prophy.science/search

Articles Authors

Search articles Search for articles by title or ids (DOI, PMC5502336, arXiv:1511.04078)

Search examples

Sort by: Newest first Oldest first Citations count Relevance

For article search:

- `title: polymerase` - word *polymerase* should be in title
- `abstract: "DNA polymerase"` - phrase *DNA polymerase* should be in abstract
- `author: zampieri` - article should have an author with "zampieri" as a name part. Best used with some specific keyword or year. For specific use-cases you have `first_author` and `last_author` at your disposal (`fauthor` / `laauthor` for short).
- `year: 2020` - filter results by year. When a pre-print was published in 2019 and journal article was published in 2020, it will be searchable by any of these years. Can also be used to limit any search to a few years like `DNA polymerase year:(>=2010 AND <=2015)`.
- `authors_count:<5, citations_count:>500` - these can also be shortened to `ac:<5` and `cc:>500` respectively.
- `acetylcholine AND "genomic analysis"` - both parts should be in title, abstract or full text
- `"macular degeneration" AND (wet OR dry) NOT "age-related"` - more complex query with grouping and NOT
- `pubmed: 26830707, PMC: 4748745, 10.1136/bmjopen-2017-019748` - find one article directly by an id

Search tips

## Human embryonic stem cell

This concept occurs in approximately 40093 articles.

### Literals:

- Human **Embryonic stem cell**
- hESC
- human embryonic stem
- hES
- HES
- hES cell
- HES cell
- HESC

– Search full texts, authors, years, etc

– Main operators: title: abstract: author: year: citation\_count:

– Autocomplete takes keywords into **concepts** (many key-phrases, synonyms, abbreviations combined and properly disambiguated)

# Monitoring



Prophy saved-monitorings page. The 'Monitoring' tab is selected in the navigation bar. There are two buttons: 'Create new monitoring' and 'Bootstrap monitoring'. A grey box with the number '1' is overlaid on the right side.

Prophy monitoring configuration page. The 'Stem cells' section is active. A search concept 'Stem cell (Stem Cell)' is entered. A dropdown menu is open showing suggestions: 'specific stem cells', 'stem cell biology', 'somatic stem cells', 'human stem cell', 'Stem-cell Therapy', 'stem/progenitor cells', 'stem cells/progenitors', 'stem cell population', 'multipotent stem cell', and 'stem cell physiology'. A grey box with the number '2' is overlaid on the right side.

Prophy monitoring configuration page. The 'Advanced (optional)' checkbox is checked. The search concept is 'Stem cells' and 'Therapies'. The 'Add topic' and 'Import topic...' buttons are visible. A grey box with the number '3' is overlaid on the right side.

Prophy monitoring results page. The 'Apply changes' button is highlighted. Below it, it says '50 / 317 articles show top found concepts'. A grey box with the number '4' is overlaid on the right side.

- **Combine** concepts into topics (use autocomplete and “related” concepts)
- **Group** topics with “AND”/”OR”/”NOT”
- **Save** changes and see relevant articles in daily, weekly, monthly, etc intervals

# Semantic jobs



1

2

3

4

- Prophy supports the whole hiring cycle: announcement; acceptance of applications; short listing
- Specify the scope of the position via relevant papers (*any publication from the Prophy database can be used*)
- Find fitting candidates and **invite** them for to apply
- Rank applicants by their closeness to the application profile, by their recommenders, by their bibliometrics and impact

# Referee Finder for papers in Prophy



1

Hypoimmune induced pluripotent stem cell-derived cell therapeutics treat cardiovascular and pulmonary diseases in immunocompetent allogeneic mice.

The emerging field of regenerative cell therapy is still limited by the few cell types that can reliably be differentiated from pluripotent stem cells and by the immune hurdle of commercially scalable allogeneic cell therapeutics. Here, we show that gene-edited, immune-evasive cell grafts can survive and successfully treat diseases in immunocompetent, fully allogeneic recipients. Transplanted endothelial cells improved perfusion and increased the likelihood of limb preservation in mice with critical limb ischemia. Endothelial cell grafts transduced to express a transgene for alpha1-antitrypsin (A1AT) successfully restored physiologic A1AT serum levels in mice with genetic A1AT deficiency. This cell therapy prevented both structural and functional changes of emphysematous lung disease. A mixture of endothelial cells and cardiomyocytes was injected into infarcted mouse hearts, and both cell types orthotopically engrafted in the ischemic areas. Cell therapy led to an improvement in invasive hemodynamics and survival in mice with critical limb ischemia. Cell therapy led to an improvement in invasive hemodynamics, universal regenerative cell therapy.

publication year: 2021  
pubmed: 34244426  
doi: 10.1073/pnas.2022091118  
Proc Natl Acad Sci U S A, v. 118, i. 28, e2022091118

Tobias Deuse, Grigol Tediashvili, Xiaomeng Hu, Alessia Gravina, Annika Tamenang et al.

Find similar articles...  
Search in Google  
Find referees

Click to find the referees

- Find referees for any paper in Prophy
- Adjust criteria for selecting referees (*h-index, academic age, years of publication*)

2

Add custom authors to analysis. Name format: John Smith, John Z Smith

Top 50 referees

| # | Name             | Author score | Article score | Articles (total) | h-index | Citations | Details |
|---|------------------|--------------|---------------|------------------|---------|-----------|---------|
| 1 | Joseph C. Wu     | 5.29         | 0.93          | 10 (780)         | 95      | 33000+    | more    |
| 2 | Charles E. Murry | 4.03         | 0.92          | 10 (305)         | 75      | 31000+    | more    |
| 3 | Shigeru Miyagawa | 3.80         | 0.92          | 10 (551)         | 40      | 6100+     | more    |

Settings

3

We analyzed each document to provide you with reasonable defaults for best referee results. You can fine tune the results using these settings:

All articles  Top 20% articles  Top 10 author articles

All years  Recent articles

No citations filter  Top-cited articles

h-index  $\geq$

h-index  $\leq$

Academic age  $\geq$

Academic age  $\leq$

filter referees by article concepts

Apply

| # | Name         | Author score | Article score | Articles (total) | h-index | Citations | Details |
|---|--------------|--------------|---------------|------------------|---------|-----------|---------|
| 1 | Joseph C. Wu | 5.29         | 0.93          | 10 (780)         | 95      | 33000+    | more    |

# Referee Finder for drafts, proposals, etc



Panel 1: A browser window showing the 'Panels - Prophy' page. The URL is `prophy.science/panels`. The navigation menu includes 'Prophy', 'Search', 'Monitoring', 'Panels', 'Jobs', and 'Bookmarks'. The main content area displays the 'Weizmann Institute of Science' header and a table with one entry:

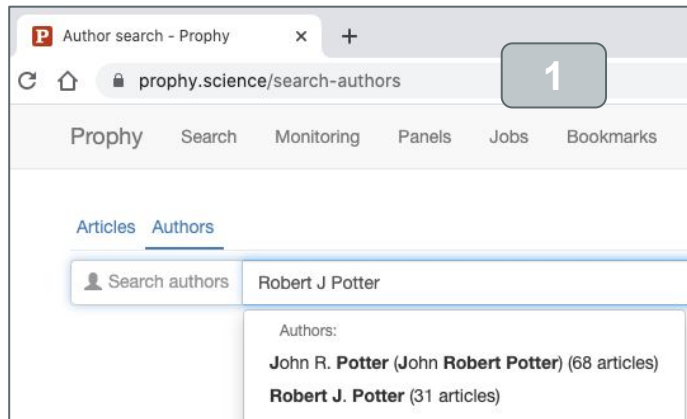
| Name  |
|---|
| <a href="#">Weizmann Institute of Science</a> |

Panel 2: A browser window showing the 'Weizmann Institute of Science' page for panel 633. The URL is `prophy.science/panel/633`. The navigation menu is the same as in Panel 1. The main content area displays the 'Weizmann Institute of Science' header and a blue 'Add proposal' button. A grey arrow points to the button with the text 'Click here'.

- Upload any PDF to the Panel
- Then follow the Referee Finder workflow

Panel 3: A browser window showing the 'New proposal' page. The URL is `prophy.science/panel/633/proposals/new`. The navigation menu includes 'Prophy', 'Search', 'Monitoring', 'Panels', and 'Jobs'. The main content area displays the 'New proposal' header and 'Step 1. Upload proposal PDF'. Below the text, there is a large white box with the text 'Click or drop file here'.

# Academic evaluation and promotion



Author search - Prophy

prophy.science/search-authors

1

Prophy Search Monitoring Panels Jobs Bookmarks

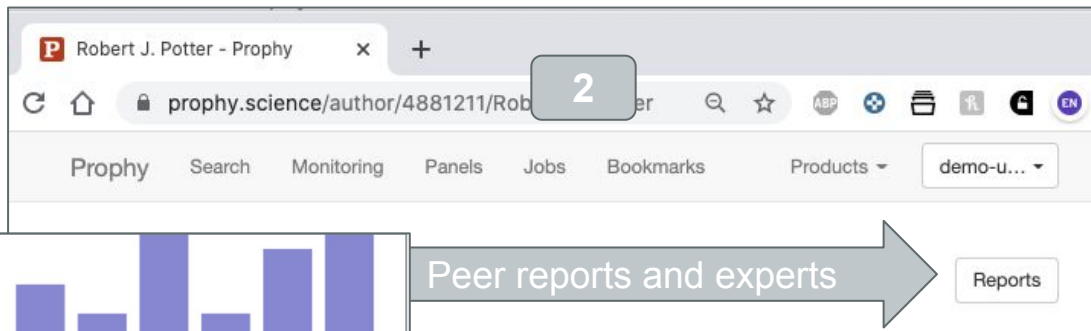
Articles Authors

Search authors Robert J Potter

Authors:

- John R. Potter (John Robert Potter) (68 articles)
- Robert J. Potter (31 articles)

- Select any author in the Prophy (more than 60M profiles)
- Click on **[Reports]**
- See (*Peers are people who work on the same topic and have similar scientific age*) **Peers report**
- Construct evaluation panel **Wide experts**
- Build topical profile of a candidate and create a topical evaluation panel



Robert J. Potter - Prophy

2

prophy.science/author/4881211/Robert-J-Potter

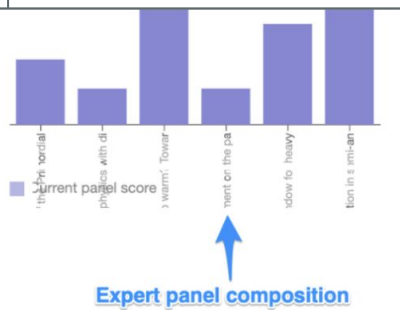
Prophy Search Monitoring Panels Jobs Bookmarks Products demo-u...

Peer reports and experts

Reports

| Name                | Score | Detailed score | Articles | h-index | Citations | Details              |
|---------------------|-------|----------------|----------|---------|-----------|----------------------|
| [Redacted]          | 67.44 |                | 83       | 50      | 21000+    | <a href="#">more</a> |
| Silvia [Redacted]   | 63.33 |                | 170      | 60      | 12000+    | <a href="#">more</a> |
| Matteo [Redacted]   | 55.95 |                | 209      | 70      | 25000+    | <a href="#">more</a> |
| James S. [Redacted] | 32.08 |                | 67       | 38      | 5400+     | <a href="#">more</a> |

Expertise profile over topics



Expert panel composition





# Questions?

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