HRA Analyzer QuickStart Guide
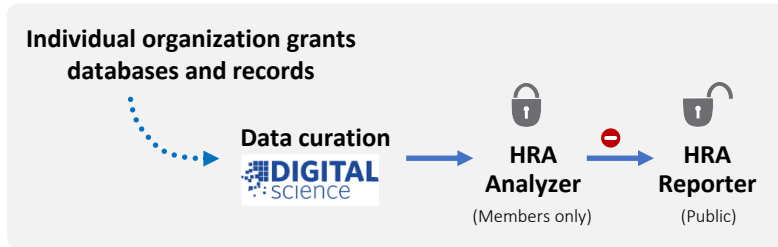
Health Research Alliance

HRA Analyzer is a real time, searchable database of awards made by HRA member organizations – its goal is to represent the full scope of awards by nonprofit organizations and to provide a clearer picture of the biomedical research funding landscape.

Use HRA Analyzer to:

- Search for funding in specific research areas and categories
- Track individual grants by associated publications
- Visualize funding data from both HRA organizations and NIH

The quality of Analyzer depends on member organizations submitting data!

How does it work?

Individual organization grants databases and records

Data curation
DIGITAL science

HRA Analyzer
(Members only)

HRA Reporter
(Public)

HRA member organizations submit data at regular intervals to our partners at Digital Science (sometimes referred to as ÜberResearch), who check data for completeness and load it into an analytical platform called **Dimensions**. If an organization gives permission, data can also be funneled into HRA Reporter, the public version of Analyzer that is modeled after NIH RePORTER.

Navigating HRA Analyzer

Questions? Need a new Analyzer login? Just e-mail supportHRA@dimensions.ai or admin@healthra.org!

① **Type your search term(s) here to start.** You can use 'AND' and 'OR' if needed; any filters you apply will appear in this top bar.

Click to toggle back and forth between viewing HRA grants, NIH grants, or publications.

Visit for FAQs and more!

③ Expand this tab to explore your results by category and generate high-level data visualizations (see inset below).

Use this panel to **filter** your results by funder, institution, research category, etc.

② **Results** from your search will appear here in list form.

Graph or chart will appear here.

④ Use the left-hand and top menus to select graph type and/or variable to display.

Look for the ☰ icon to export!

HRA Analyzer FAQs

Who has access to Analyzer data?
A: Only HRA member organizations can use HRA Analyzer. Your organization's data will **not** be available to others (including other Dimensions users) unless you give written permission to share it through the public version, HRA Reporter. If you wish to report on awards analyses that include data from organizations besides your own, please contact Maryrose (maryrose@healthra.org).

How does information get submitted to HRA Analyzer?
A: The easiest way to submit data is to e-mail a report from your grants management system or other database to supportHRA@dimensions.ai. The Digital Science/Dimensions team will review it for completeness and ensure it fits standards for HRA data structure. **We are here to make this as painless as possible!** Reach out to admin@heathra.org for help getting started.

> Does your organization use ProposalCentral? If so, you can request that awards data be sent automatically to HRA Analyzer at regular intervals.

How are classifications/codes (e.g., ICRP codes) assigned?
HRA Analyzer uses categorical sets that are integrated into the Dimensions platform, including FOR, RCDC, and HRCS. Codes are assigned by machine learning when data is uploaded (this is one reason including abstracts is so important!). Read the **Primer on Research Categories** (p.3) to learn more about these categories and the process of coding awards.

Minimum data fields for submission

- Unique project ID
- Award title and abstract*
- Award start and end dates
- Funding amount
- Recipient name
- Recipient organization

*__Please note that abstracts are required for classification (category) coding__.

> See **Resources** below for a downloadable list of data fields and definitions.

How do I generate visualizations of data or export data from Analyzer?
A: Look for the *Analytical Views* tab on the right-hand menu to explore data visually and across certain categories or variables. Charts and graphs can be downloaded as PNGs, JPEGs, or PDFs, and the data can also be exported in CSV or XLS format.

How often is data in HRA Analyzer updated?
A: PubMed and other metrics (citations, Altmetric, etc.) are updated daily. Grants data is updated monthly by the Dimensions team – but note that some funders release new data less often, so not all organizations' data will be updated every month. You can typically expect data to be available within 60 days of submission; check the Support Center for more info.

What are Program Fields?
A: Program fields are data fields stored offline that describe specific groups or types of awards ("programs") to enable detailed analyses within or between organizations. These fields are chosen from controlled lists to maximize searchability. Once collected, they can be mapped retroactively and prospectively to all awards for a given program. For a description of these fields, see **Primer: Program Fields**, p. 4.

Key Resources

HRA Analyzer **Support Center**
Maintained by Dimensions; submit a help ticket or browse answered questions.

HRA Analyzer **User Guide**
Walks you through several examples of search functions, Analytical Views, and more.

List of **Data Fields**
Including definitions and categories with controlled lists

Data Submission Templates
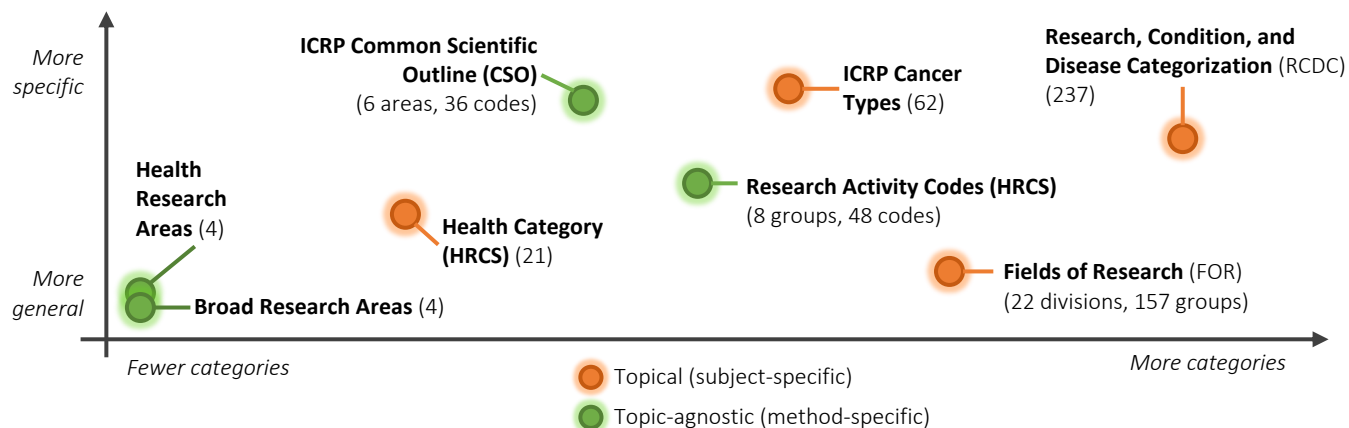Although **not** required, these Excel spreadsheets provide a structured way to organize and submit awards data.

HRA Website
Bookmark this page for general information and updates. Webinar recordings posted as resources here.

Primer: Research Categories in HRA Analyzer

Classification systems ("Research Categories") in HRA Analyzer are based on standard national and international coding systems. When awards are uploaded, Dimensions' automated algorithms assign categories based on all data available (i.e., award title and abstract text). Categorial schemes vary in their purpose and specificity, but if you can learn to use them in conjunction with keyword and abstract searches, they can be great tools to gather meaningful data.
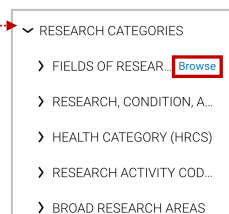

Scatter plot axes: vertical axis from *More general* (bottom) to *More specific* (top); horizontal axis from *Fewer categories* (left) to *More categories* (right).

- **ICRP Common Scientific Outline (CSO)** (6 areas, 36 codes) — green
- **ICRP Cancer Types** (62) — orange
- **Research, Condition, and Disease Categorization** (RCDC) (237) — orange
- **Health Research Areas** (4) — green
- **Health Category (HRCS)** (21) — orange
- **Research Activity Codes (HRCS)** (8 groups, 48 codes) — green
- **Broad Research Areas** (4) — green
- **Fields of Research** (FOR) (22 divisions, 157 groups) — orange

Legend:
- Topical (subject-specific) — orange
- Topic-agnostic (method-specific) — green

Classification System	System Description	Developed by
Fields of Research (FOR)	Covers all research areas, including arts and humanities; in Analyzer, 2-digit division codes and 4-digit group codes are used as categories	ANZSRC (Australian and New Zealand Standard Research Classification)
Research, Condition, and Disease Categorization (RCDC)	Biomedical categories including research areas (e.g., neuroscience), diseases (e.g., diabetes), and conditions (e.g., chronic pain)	US National Institutes of Health (NIH)
Health Category (HRCS)	Biomedical topic/disease categories, including 'Generic Health Relevance'	UK Health Research Classification System (HRCS)
Research Activity Codes (HRCS)	Codes helping to describe how basic or applied research is	
Broad Research Areas	Basic Science; Clinical Medicine and Science; Health Services Research; Public Health	ANZSRC
Health Research Areas	Biomedical; Clinical; Health Services & Systems; Population & Society	Dimensions
ICRP Cancer Types	Standard cancer type coding scheme linked to the International Classification of Disease	International Cancer Research Partnership (ICRP)
ICRP Common Scientific Outline (CSO)	Broad areas of interest in cancer research, used to stratify grants by activity/approach	

*Keep in mind that grants may be tagged with multiple categories, so aggregate monetary estimates by category should be interpreted with caution.

Want to learn more?

In the **Filters** menu of Analyzer, expand *Research Categories* and hover over a category to click Browse. Once on the browsing page, you can also click About Research Classifications to learn how these systems are applied to HRA data.

RESEARCH CATEGORIES
- FIELDS OF RESEAR... Browse
- RESEARCH, CONDITION, A...
- HEALTH CATEGORY (HRCS)
- RESEARCH ACTIVITY COD...
- BROAD RESEARCH AREAS

Primer: Program Fields

Program fields can be collected retroactively per program and mapped forward and backward to all support from that program (unless/until the member organization notifies of a program change).

Program Field	Description	Data Options
Support Mechanism	How funds are granted or awarded (Most awards in Analyzer are grants)	Grant / Endowment / Prize / Contract / Cooperative Agreement / Direct Research Support / Impact investment / Other
Support Recipient	Award type	Individual / Team (same institution) / Institution/ Center / Consortium (>1 institution) / Industry / Other
Support Purpose	Acknowledging that training or career development support <u>also</u> aims to fund high-caliber research.	Training / Career Development / Research / Curriculum Development / Infrastructure / Other
Career Stage	Awardee stage time of commitment of research support	Not targeted / Predoctoral / Postdoctoral / Junior Faculty / Established Investigator / Other
Eligibility	Degree requirements for award recipients (italics denote 'Candidate for' degree listed)	Not applicable / *Bachelor's or earlier* / *Masters* / *PhD or equivalent* / *MD or equivalent* / *MD/PhD or equivalent dual degree* / *Any advanced degree* / PhD or equivalent / MD or equivalent / PhD or MD or equivalent / MD/PhD or equivalent dual degree / Any research or health-professional advanced degree / Other

HRA Data Template

Remember, program fields are stored in the HRA Analyzer **offline data file**. You will need to request this file from Dimensions before you start working on your analysis!

Examples of portfolio analyses that can be performed using Program fields:

- Does our organization's support of a specific career stage (postdoc, junior faculty, etc.) mirror that of other HRA organizations?
- What percentage of HRA awards within a specific field are given to an individual vs. a team or consortium?
- What are the most common degree requirements for awards similar to ours?
- How has our type of funding changed over time?