Cite as: #Crossref2023 Annual Meeting and Board Election presentation, October 31, 2023 retrieved [date], https://doi.org/10.13003/h3yygefpyf

CROSSREF ANNUAL MEETING & BOARD ELECTION

2023-10-31

https://mastodon.online/@crossref

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

Tuesday, October 31

9:30am UTC	📌 Welcome, introductions, and the latest on the Research Nexus
10:00am UTC	Updates from the community Vincas Grigas • Martin Fenner • Iratxe Puebla
11:00am UTC	Product demonstrations + Q&A Martyn Rittman • Erik Hanson • Luis Montilla • Lena Stoll • Rachael Lammey • Martin Eve • Esha Datta
1:00pm UTC	What do we still need to build a robust Research Nexus? Ran Dang • Matt Buys • Kevin Stranack • Ludo Waltman • Mercury Shitindo • Ginny Hendricks • Patrica Feeney
2:00pm UTC	📌 Annual meeting and board elections and Crossref strategy
3:00pm UTC	Updates from the community Joann Fogleson • Shelley Stall • Edilson Damasio • Amanda French • Engjellushe Zenelaj • Kristina Vrouwenvelder
5:00pm UTC	Unplugged (watch this space)

2023 BOARD SLATE

Tier 1 candidates (electing five seats):

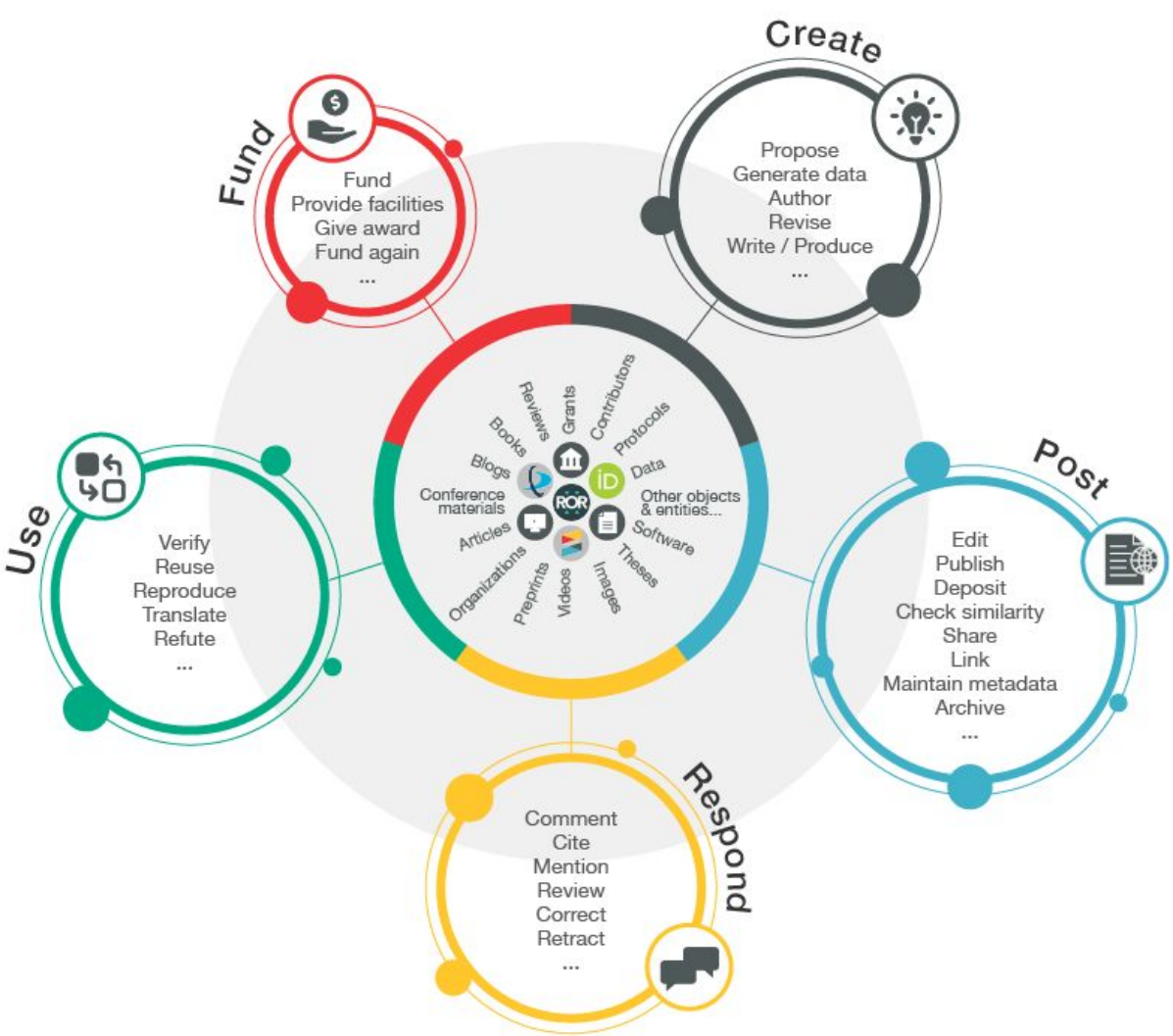
- Beilstein-Institut, Wendy Patterson
- Korean Council of Science Editors, Kihong Kim
- Lujosh Ventures Limited, Olu Joshua
- NISC Ltd, Mike Schramm
- OpenEdition, Marin Dacos
- Universidad Autónoma de Chile, Dr. Ivan Suazo
- Vilnius University, Vincas Grigas

Tier 2 candidates (electing two seats):

- Association for Computing Machinery (ACM), Scott Delman
- Oxford University Press, James Phillpotts
- Public Library of Science (PLOS), Dan Shanahan
- University of Chicago Press, Ashley Towne

Voting closes at 13:00 UTC
Email **lucy@crossref.org** if you still need to place or change your vote.

THE LATEST ON THE RESEARCH NEXUS



WHAT WE'RE AIMING FOR

- Bringing together the disparate parts of the scholarly record
- Better view of relationships (beyond PIDs)
- Exposing internal stuff publicly
- Enabling multi-party assertions
- Evidence. Provenance. Persistence.
- **60% of this is possible, the rest is aspirational**

THE SCALE OF CROSSREF INFRASTRUCTURE

- **>19,000** organisational members from **152** countries
- **>150** million open metadata records with a DOI
- **1.1 billion** DOI resolutions every month
- **000s** (?) systems reusing metadata through search/API and **1.2 billion** queries every month (up from 607mil in 2018)
- **150** Sponsor orgs; **50** Ambassadors
- **$1,150,000** on data storage and processing alone in 2024
- **47** staff across **7** time zones and **10** countries

Records	As of Oct 2018	As of Oct 2023	% change
Total records registered	100,774,749	151,255,483	50%
Number of Journals	62,226	123,336	98%
Number of Journal articles	73,957,459	102,775,406	105%
Number of Books	1,285,818	1,913,683	49%
Number of Book-related records	14,288,511	24,576,712	72%
Number of Conference proceedings	62,190	105,077	69%
Number of Conference papers	5,477,054	8,125,166	48%
Number of Preprints	79,084	1,637,103	1970%
Number of Reports	586,195	746,921	27%
Number of Peer reviews	13,456	421,782	3035%
Number of Standards	257,470	378,946	47%
Number of Components	3,454,155	7,865,443	128%
Number of Databases	21,806	63,926	193%
Number of Database-related records	1,704,946	2,919,950	71%
Number of Dissertations	240,407	618,951	157%
Number of Grants	6	87,259	1454217%

Growth slowing gradually over the years from 13% 7-8 years ago, to 10% 3-4 years ago, to now under 8% from 2022-23

Preprints still growing, particularly from American Association for Cancer Research (AACR)

Peer review reports also growing, this is typical growth the last few years

Grant records have more than doubled, thanks to the European Commission

Research Nexus connections	As of Oct 2018	As of Oct 2023	% change
Records with references	41,516,410	66,508,539	60%
Number of Cited-by matches	758,372,968	1,542,481,107	103%
Number of Preprint-to-article links	17,883	555,134	3004%
Number of unique records with Funder IDs	2,431,939	8,099,744	233%
Records with one or more authors with ORCID iDs	1,950,216	12,114,204	521%
Total unique ORCID iDs	1,293,649	6,093,373	371%
Total works auto-pushed to ORCID	1,363,337	16,256,452	1092%
Records with abstracts	2,707,893	26,814,551	890%
Records with ROR IDs	n/a	73,560	n/a
Records with Crossmark	7,747,598	25,013,338	223%
Crossmark status updates	93,223	267,583	187%
Crossmark retractions	4,477	14,004	213%
Crossmark popup displays (av. per month)			

Research Nexus adoption	As of Oct 2018	As of Oct 2023	% change
Members registering references	4,636	10,158	119%
Members registering abstracts	3,645	22,312	512%
Members participating in Crossmark	324	516	59%
Members registering ORCID iDs	3,645	15,154	316%
Members registering ROR IDs	n/a	290	n/a
Members registering Funder IDs	746	2,161	190%

Preprint to article links rising

ORCID Auto-update going well. And we reached 3 million authors granting us permission

No. retractions still very small (compared to RW) and No. members using Crossmark still small

The I4OA message is starting to get traction. Wiley!

ABS TRA CTS

TOP 15 BY MEMBER PARTICIPATION

Member name	Participation	No. records
Life Science Alliance, LLC	78.7%	1065
American Society for Microbiology	71.2%	294896
The Korean Association of Immunobiologists	70.0%	781
F1000 Research Ltd	69.5%	18126
The Korean Nutrition Society and The Korean Society of Community Nutrition	69.4%	1084
Korean Society of Clinical Nutrition	69.2%	308
Korean Vaccine Society	67.8%	268
The Korean Academy of Asthma, Allergy and Clinical Immunology and The Korean Academy of Pediatric Al	67.8%	1492
The Korean Society of Ocean Engineers	67.7%	313
Korean Society of Cardiovascular Disease Prevention	67.5%	71
The Korean Nutrition Society	67.4%	756
The Korean Association of Robotic Surgeons	66.3%	26
The Korean Society of Veterinary Science	66.3%	1554
Korean Society of Heart Failure	66.0%	89
The Korean Society for Brain and Neural Science	65.6%	544

TOP 10 LARGE MEMBERS

Member name	Participation	No. records
American Society for Microbiology	71.2%	294,896
Hindawi Limited	62.4%	509,504
Rockefeller University Press	57.2%	62,414
Proceedings of the National Academy of Sciences	56.8%	158,254
American Geophysical Union (AGU)	54.4%	259,730
SAGE Publications	53.3%	3,000,311
Public Library of Science (PLoS)	53.2%	341,736
The Royal Society	53.0%	106,949
Royal Society of Chemistry (RSC)	49.6%	810,113
MDPI AG	48.5%	1,246,986

AMERICAN SOCIETY FOR MICROBIOLOGY

Blog

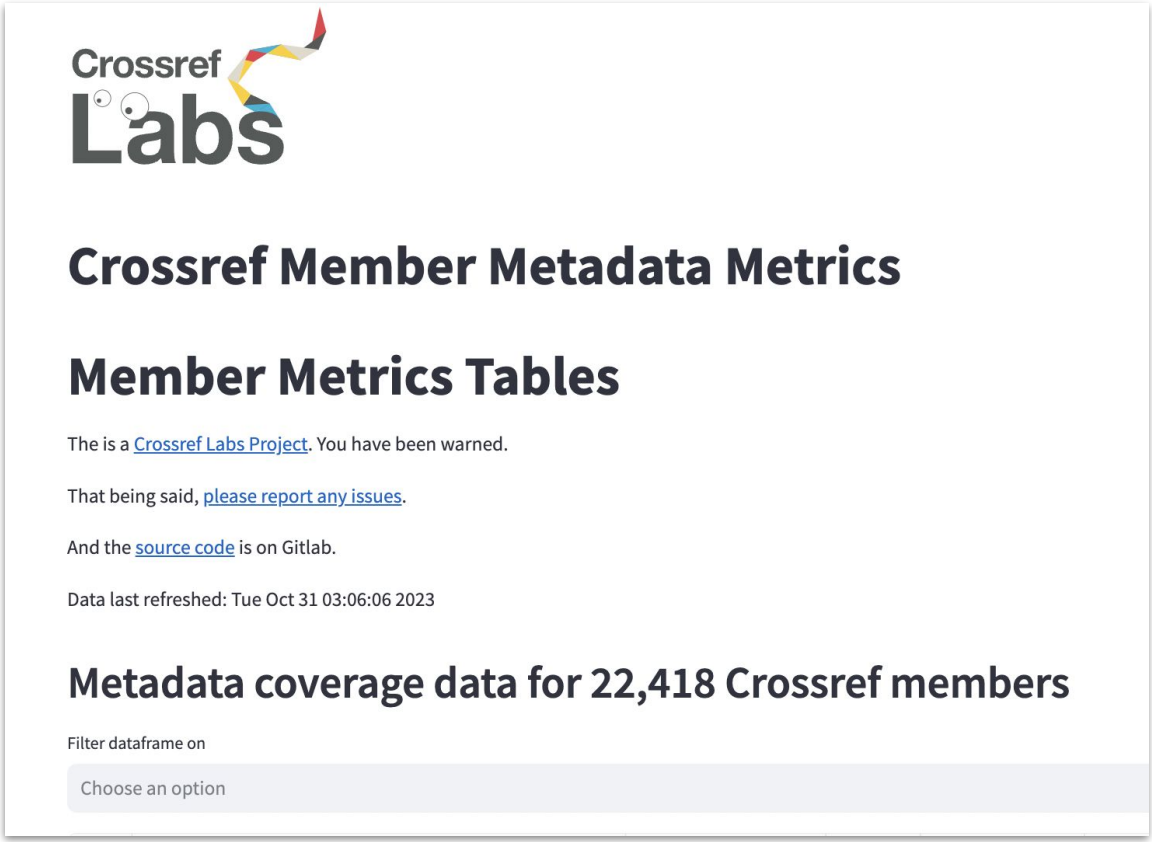
14 minute read.

Shooting for the stars – ASM's journey towards complete metadata

Kornelia Korzec, David Haber, Deborah Plavin – 2023 March 14
In Metadata, Community, Publishing, Research Nexus, Content Registration

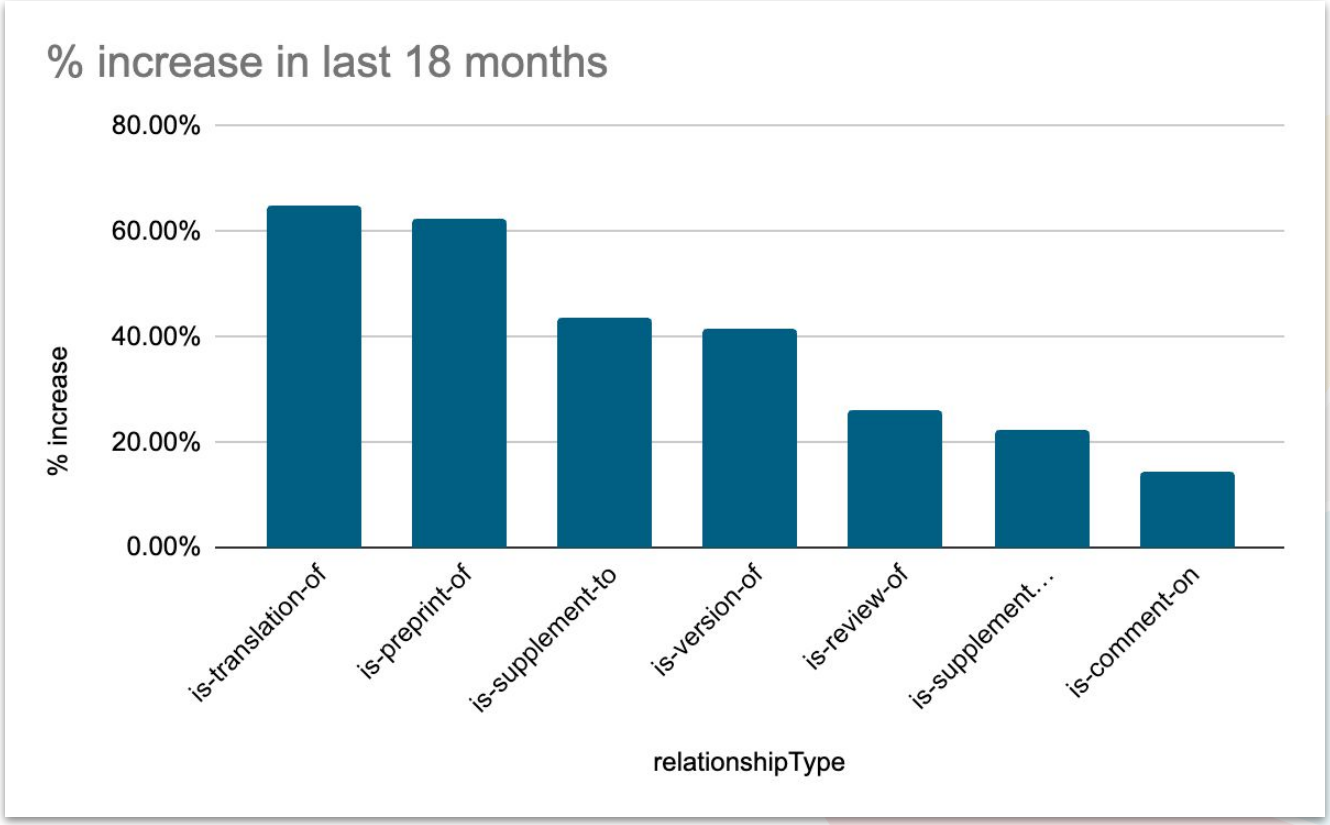
At Crossref, we care a lot about the completeness and quality of metadata. Gathering robust metadata from across the global network of scholarly communication is essential for effective co-creation of the research nexus and making the inner workings of academia traceable and transparent. We invest time in community initiatives such as Metadata 20/20 and Better Together webinars. We encourage members to take time to look up their participation reports, and our team can support you if you're looking to understand and improve any aspects of metadata coverage of your content.

In 2022, we have observed with delight the growth of one of our members from basic coverage of their publications to over 90% in most areas, and no less than 70% of the corpus is covered by all key types of metadata Crossref enables (see their own participation report for details). Here, Deborah Plavin and David Haber share the story of ASM's success and lessons learnt along the way.



https://member-metrics.fly.dev

RELATIONSHIPS

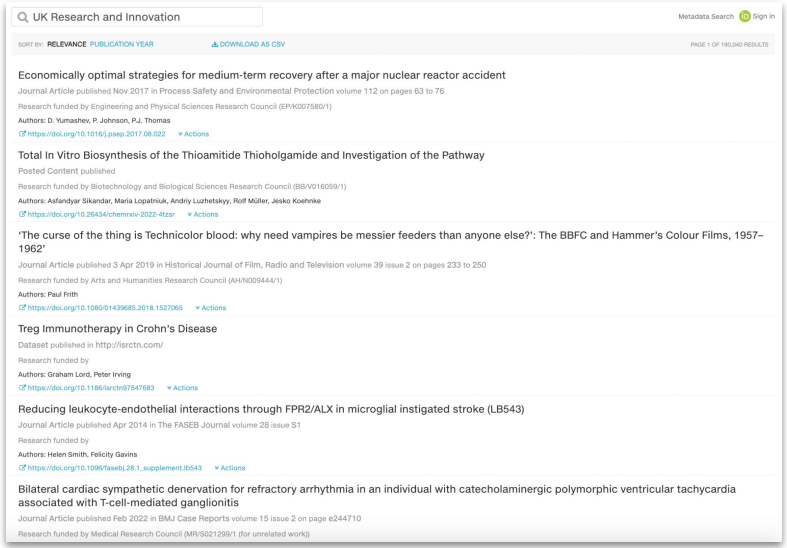


FUNDING RELATIONSHIPS

Search funders connected to published works with funding data

UK Research and

- UK Research and Innovation United Kingdom
- UK-India Education and Research Initiative United Kingdom
- Biotechnology and Biological Sciences Research Council United Kingdom
- Pusat Pengurusan Penyelidikan dan Instrumentasi Malaysia
- EDF Energy Research and Development United Kingdom
- Diabetes Research and Wellness Foundation United Kingdom
- Center for Pharmaceutical Research and Innovation, University of Kentucky United States
- Henry Royce Institute United Kingdom
- Saha Cardiovascular Research Center, University of Kentucky United States



search.crossref.org/funding?q=100014013

apda
AMERICAN PARKINSON DISEASE ASSOCIATION
Strength in optimism. Hope in progress.

CHILDREN'S TUMOR FOUNDATION
NF ENDURANCE

ALS
ASSOCIATION

Arthritis Foundation

NTAP
NF Research Accelerated

American Heart Association

TSC Alliance

American Cancer Society

HFSP

Uncle Kory
FOUNDATION

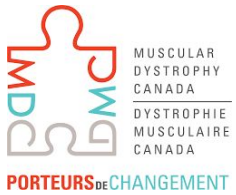
curePSP
UNLOCKING THE SECRETS OF BRAIN DISEASE

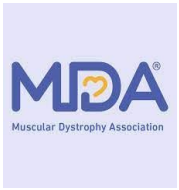
INTERNATIONAL ANESTHESIA RESEARCH SOCIETY
1922

Melanoma
Research Alliance

Parkinson's Foundation

APN
ASIA-PACIFIC NETWORK FOR
GLOBAL CHANGE RESEARCH


MUSCULAR DYSTROPHY CANADA
DYSTROPHIE MUSCULAIRE CANADA
PORTEURS DE CHANGEMENT


MDA
Muscular Dystrophy Association

NWO

JST
Japan Science and Technology Agency

FCT
Fundação para a Ciência e a Tecnologia
MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR

European Commission

ARDC
Australian Research Data Commons

OSTI.GOV

TEMPLETON WORLD
CHARITY FOUNDATION

wellcome

Chan Zuckerberg Initiative

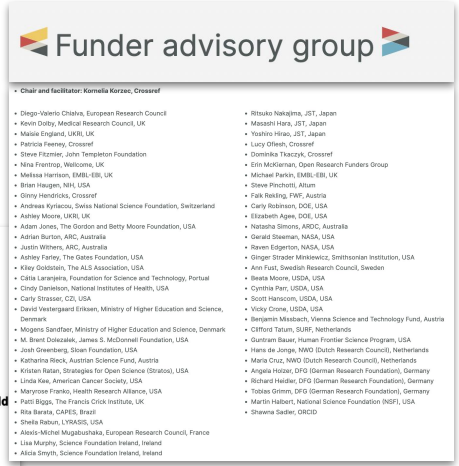
JSMF

GORDON AND BETTY
MOORE
FOUNDATION

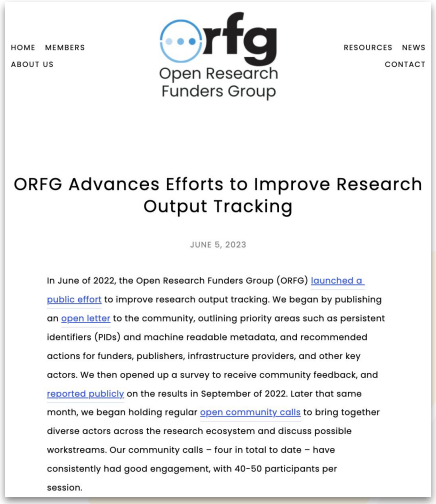
W|W|T|F

SIMONS
FOUNDATION

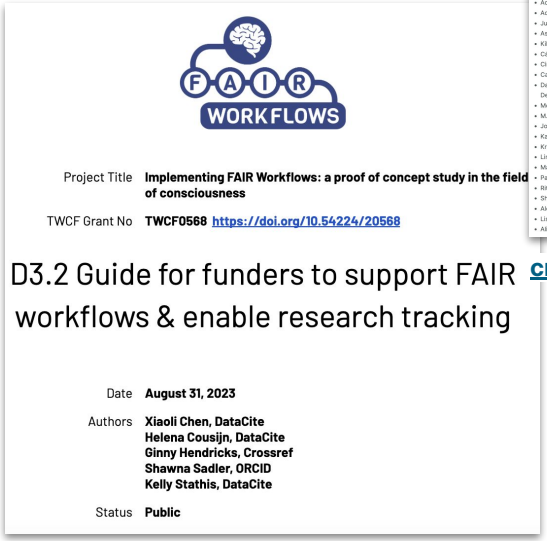
Vienna Science and Technology Fund



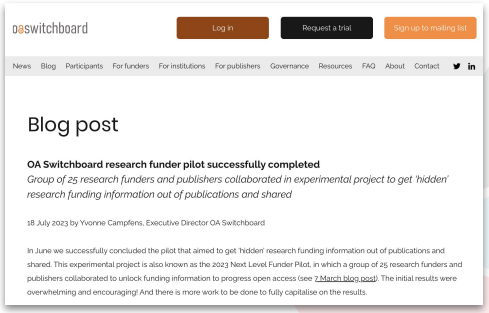
crossref.org/working-groups/funders



orfg.org/news/2023/6/5/orfg-advances-efforts-to-improve-research-output-tracking



https://doi.org/10.5281/zenodo.8289142



oaswitchboard.org/blog-post-18july2023-funder-pilot

LABS METADATA PIPELINE

Testing	Queued up	Planning
• Alternate names • ROR as funder ID	• publication types in citations • expand contributor roles (CRediT) • Grants updates • Preprint updates	• Statements • expand markup for abstracts • multi-lingual metadata • relationships review

Including ROR as a funder identifier in your metadata

Questions from Crossref ror, grants, funder-registry, labs, PFeeney

PFeeney Crossref team 18h

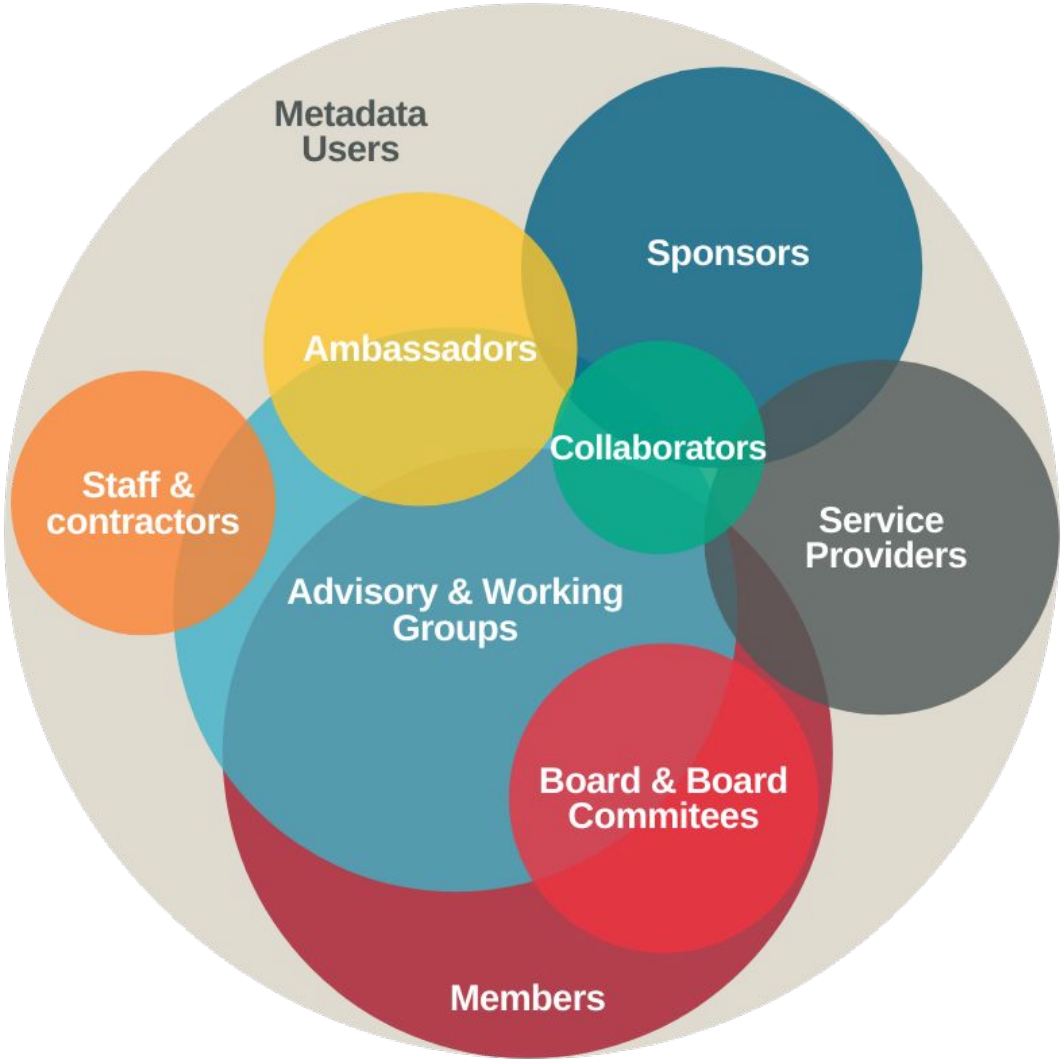
As many of you know, the Open Funder Registry will transition into the ROR Registry 3. We will be supporting ROR IDs instead of Funder IDs in Crossref metadata record registration soon but first would like to test the process using our Labs metadata pipeline and need your XML - we've done some internal testing but as we all know the fun doesn't really begin until we have real-world metadata records to ingest. We'll have an API available soon but for our initial round of testing we'd like to upload your XML ourselves to work out any problems in advance.

If you collect ROR identifiers and want to include them as funder identifiers, details on the changes and logic are available [in this document], or feel free to contact us with any questions or comments.

Assigned topic to PFeeney

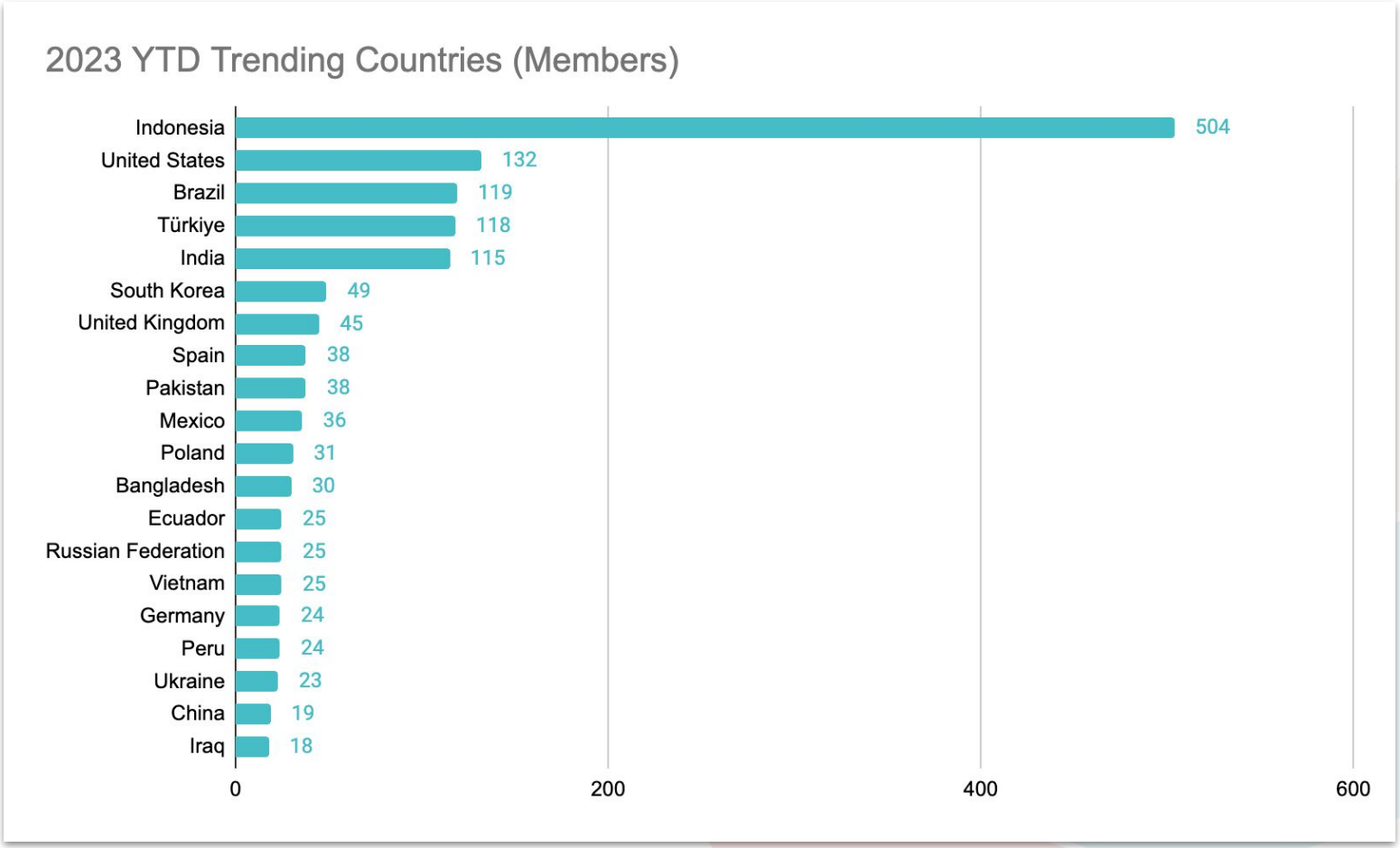
2 Reply

created	last reply	1	52	2	3	1
18h	16h	reply	views	users	likes	link


Metadata Users
Sponsors
Ambassadors
Collaborators
Staff & contractors
Service Providers
Advisory & Working Groups
Board & Board Commitees
Members

GLOBAL EQUITABLE MEMBERSHIP (GEM) PROGRAM

- 59 countries covered, based on International Development Association data
- >350 GEM members since January 2023
- Goal is to include as much research as possible in the global scholarly record
- Only necessary because our fee model hasn't kept up with how our community has evolved
- "Rightsizing Crossref" consultation project in 2024 to include fee remodelling


2023 YTD Trending Countries (Members)
Indonesia 504
United States 132
Brazil 119
Türkiye 118
India 115
South Korea 49
United Kingdom 45
Spain 38
Pakistan 38
Mexico 36
Poland 31
Bangladesh 30
Ecuador 25
Russian Federation 25
Vietnam 25
Germany 24
Peru 24
Ukraine 23
China 19
Iraq 18
0
200
400
600

UPDATES FROM THE COMMUNITY

GOOD TO KNOW

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FLASH TALKS

- Iratxe Puebla, DataCite
- Vincas Grigas, Vilnius University
- Martin Fenner, Front Matter
- Izabela Szprowska, OP and European Commission; Nikolaos Mitrakis, European Commission; and Paola Mazzucchi, mEDRA

CONNECTING RESEARCH,
ADVANCING KNOWLEDGE

Making data citations available at scale: The Global Open Data Citation Corpus

Iratxe Puebla
Director of Make Data Count at DataCite
Crossref annual meeting
31 October 2023

@datacite
@makedatacount

@makedatacount@openbiblio.social

CC BY

Data sharing is valuable, but what value do we assign to data sharing?

To nurture data sharing, we need to make it rewarding

There is currently a lack of incentives ⇨ Research assessment frameworks often focus on publications and do not include data

As a result, researchers perceive data sharing as a burden that brings little professional benefit

> “I don't have time. […] It's not incentivized either […] so why would I spend some time on something where it really amounts to no recognition […]. People who are in this community might think I'm a good person […] and that's fine. I can accept that. But I'm not going to track it, necessarily, because it doesn't amount to anything that's recognized.”
>
> *Professor, Anesthesiology, Canada*

Interviews by Stefanie Haustein & colleagues. Make Data Count Summit presentations. Make Data Count Summit, Washington DC. Zenodo. https://doi.org/10.5281/zenodo.8370593

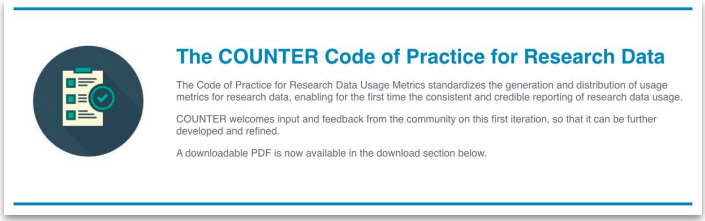
Make Data Count

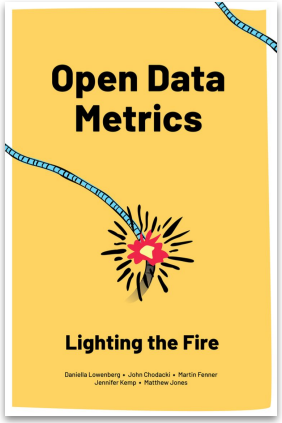
Make Data Count is an initiative that **promotes open data metrics** to enable **evaluation and reward of research data** usage and impact.

Data metrics should be:

- Community led
- Open
- Contextualized

Make Data Count leads projects to drive adoption of data usage metrics, including open infrastructure, best practices and outreach.



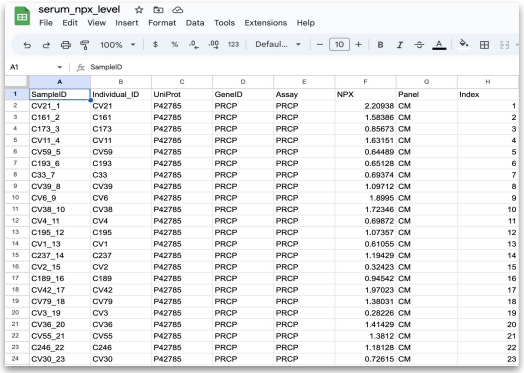


makedatacount.org/about-us/

Data Citations

Data citations are one measure of data usage: they provide a link between the dataset and another research object, clearly pointing to the data being used or reused in research.
Data citations are useful:

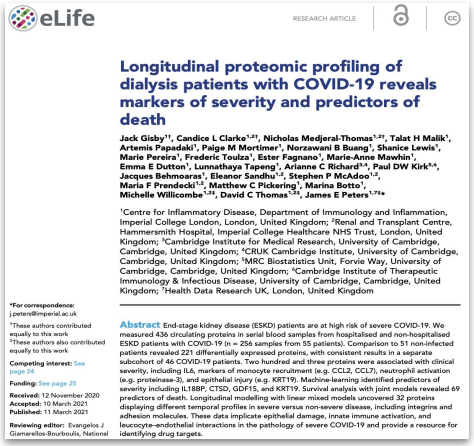
- Valued by researchers
- Work has been done to develop workflows (at repository & publishers) and AI tools to identify data citations


serum_npx_level

File Edit View Insert Format Data Tools Extensions Help

	A	B	C	D	E	F	G	H
1	SampleID	Individual_ID	UniProt	GeneID	Assay	NPX	Panel	Index
2	CV21_1	CV21	P42785	PRCP	PRCP	2.20938	CM	1
3	C161_2	C161	P42785	PRCP	PRCP	1.58386	CM	2
4	C173_3	C173	P42785	PRCP	PRCP	0.85673	CM	3
5	CV11_4	CV11	P42785	PRCP	PRCP	1.63151	CM	4
6	CV59_5	CV59	P42785	PRCP	PRCP	0.64489	CM	5
7	C193_6	C193	P42785	PRCP	PRCP	0.65128	CM	6
8	C33_7	C33	P42785	PRCP	PRCP	0.69374	CM	7
9	CV39_8	CV39	P42785	PRCP	PRCP	1.09712	CM	8
10	CV6_9	CV6	P42785	PRCP	PRCP	1.8995	CM	9
11	CV38_10	CV38	P42785	PRCP	PRCP	1.72346	CM	10
12	CV4_11	CV4	P42785	PRCP	PRCP	0.69872	CM	11
13	C195_12	C195	P42785	PRCP	PRCP	1.07357	CM	12
14	CV1_13	CV1	P42785	PRCP	PRCP	0.61055	CM	13
15	C237_14	C237	P42785	PRCP	PRCP	1.19429	CM	14
16	CV2_15	CV2	P42785	PRCP	PRCP	0.32423	CM	15
17	C189_16	C189	P42785	PRCP	PRCP	0.94542	CM	16
18	CV42_17	CV42	P42785	PRCP	PRCP	1.97023	CM	17
19	CV79_18	CV79	P42785	PRCP	PRCP	1.38031	CM	18
20	CV3_19	CV3	P42785	PRCP	PRCP	0.28226	CM	19
21	CV36_20	CV36	P42785	PRCP	PRCP	1.41429	CM	20
22	CV55_21	CV55	P42785	PRCP	PRCP	1.3812	CM	21
23	C246_22	C246	P42785	PRCP	PRCP	1.18128	CM	22
24	CV30_23	CV30	P42785	PRCP	PRCP	0.72615	CM	23

Gisby J, Clarke CL, Medjeral-Thomas N, Malik TH, Papadaki A, Mortimer PM, Buang NB, Lewis S, Pereira M, Toulza F, Fagnano E, Mawhin M, Dutton EE, Tapeng L, Kirk P, Behmoaras J, Sandhu E, McAdoo SP, Prendecki MF, Pickering MC, Botto M, Willicombe W, Thomas DC, Peters JE (2020) **Dryad Digital Repository** Longitudinal proteomic profiling of high-risk patients with COVID-19 reveals markers of severity and predictors of fatal disease. https://doi.org/10.5061/dryad.6t1g1jwxj


eLife

RESEARCH ARTICLE

Longitudinal proteomic profiling of dialysis patients with COVID-19 reveals markers of severity and predictors of death

Jack Gisby[†1], Candice L Clarke[†1,2†], Nicholas Medjeral-Thomas[1,2†], Talat H Malik[1], Artemis Papadaki[1], Paige M Mortimer[1], Norzawani B Buang[1], Shanice Lewis[1], Marie Pereira[1], Frederic Toulza[1], Ester Fagnano[1], Marie-Anne Mawhin[1], Emma E Dutton[1], Lunnathaya Tapeng[1], Arianne C Richard[3,4], Paul DW Kirk[4,5], Jacques Behmoaras[1], Eleanor Sandhu[1,2], Stephen P McAdoo[1,2], Maria F Prendecki[1,2], Matthew C Pickering[1], Marina Botto[1], Michelle Willicombe[1,2†], David C Thomas[1,2†], James E Peters[1,7†*]

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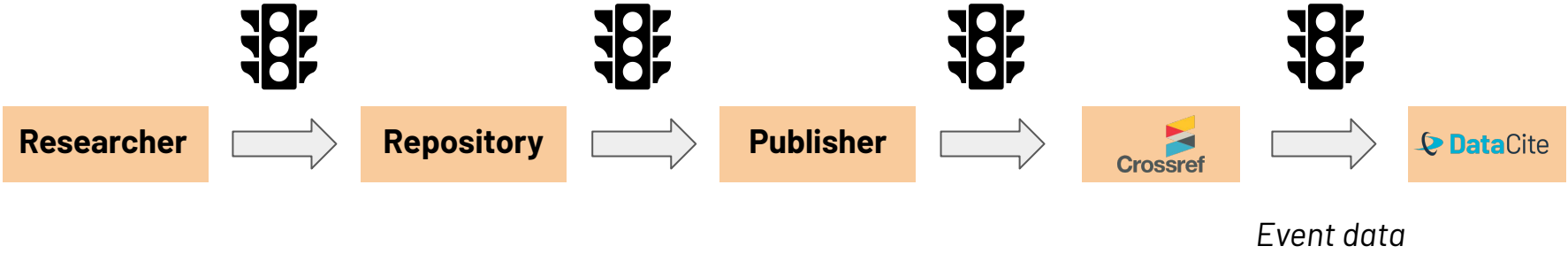
Abstract End-stage kidney disease (ESKD) patients are at high risk of severe COVID-19. We measured 436 circulating proteins in serial blood samples from hospitalised and non-hospitalised ESKD patients with COVID-19 (n = 256 samples from 55 patients). Comparison to 51 non-infected patients revealed 221 differentially expressed proteins, with consistent results in a separate subcohort of 46 COVID-19 patients. Two hundred and three proteins were associated with clinical severity, including IL6, markers of monocyte recruitment (e.g. CCL2, CCL7), neutrophil activation (e.g. proteinase-3), and epithelial injury (e.g. KRT19). Machine-learning identified predictors of severity including IL18BP, CTSD, GDF15, and KRT19. Survival analysis with joint models revealed 69 predictors of death. Longitudinal modelling with linear mixed models uncovered 32 proteins displaying different temporal profiles in severe versus non-severe disease, including integrins and adhesion molecules. These data implicate epithelial damage, innate immune activation, and leucocyte-endothelial interactions in the pathology of severe COVID-19 and provide a resource for identifying drug targets.

Data Citations: The challenges

The data citation workflow requires several steps involving different stakeholders in order for the information to propagate



Workflow adapted from Susan Borda 'If Data is Used in the Forest and No-one is Around to Hear it, Did it Happen? a Citation Count Investigation'.

Data Citations: The challenges

Data citation workflow requires several steps involving different stakeholders in order for the information to propagate

Researchers do not always cite the data they use

Not all repositories capture citation information

Some repositories use accession numbers instead of DOIs

Citations and/or associated metadata may be lost when the publisher deposits in Crossref

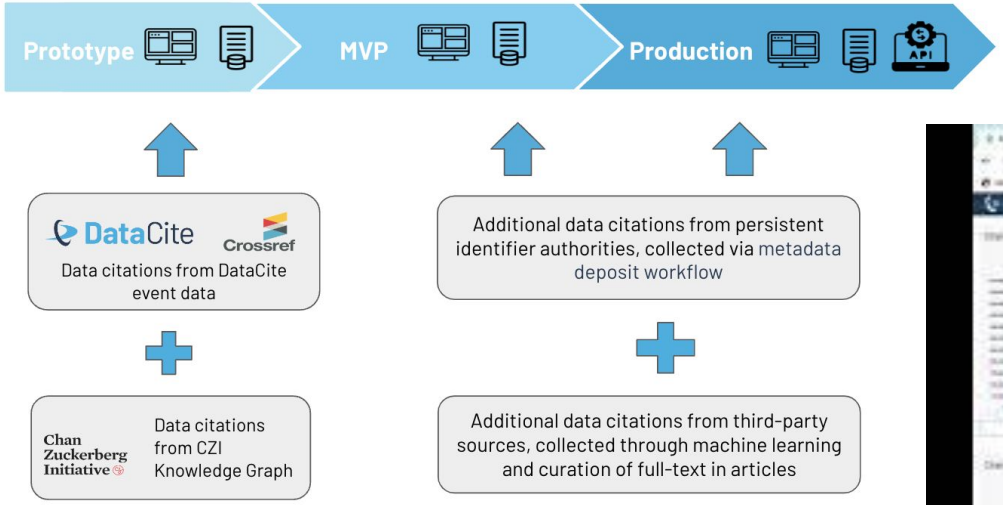
Event data

We know there are many more instances of data usage than we are currently capturing

Workflow adapted from Susan Borda 'If Data is Used in the Forest and No-one is Around to Hear it, Did it Happen? a Citation Count Investigation'.

Global Open Data

Goal: Develop a comprehensive corpus that incorporates data citations from different sources into a centralized, publicly accessible community resource



makedatacount.org/data-citation/
http://corpus.stage.datacite.org/dashboard

Thank you!

We will seek community input as we work on the development of the data citation corpus. Interested in learning more? Do get in touch:

iratxe.puebla@datacite.org
info@datacite.org

Make Data Count:
makedatacount.org

Data citation corpus:
makedatacount.org/data-citation

Photo by Ryoji Iwata via Unsplash

October 31, 2023

Who Cares? Defining Citation Style in Scholarly Journals

Vincas Grigas, **Pavla Vizváry**
Vilnius University, Lithuania
Masaryk University, Czech Republic

#Crossref2023:
Updates from the community

Hello!

Quote by Dr. Ian Malcolm:
“Your scientists were so preoccupied with whether or not they could, they didn’t stop to think if they should.”

Academic publishing and the labyrinth of citation styles.

The number in the Zotero Style Repository: 10,377!

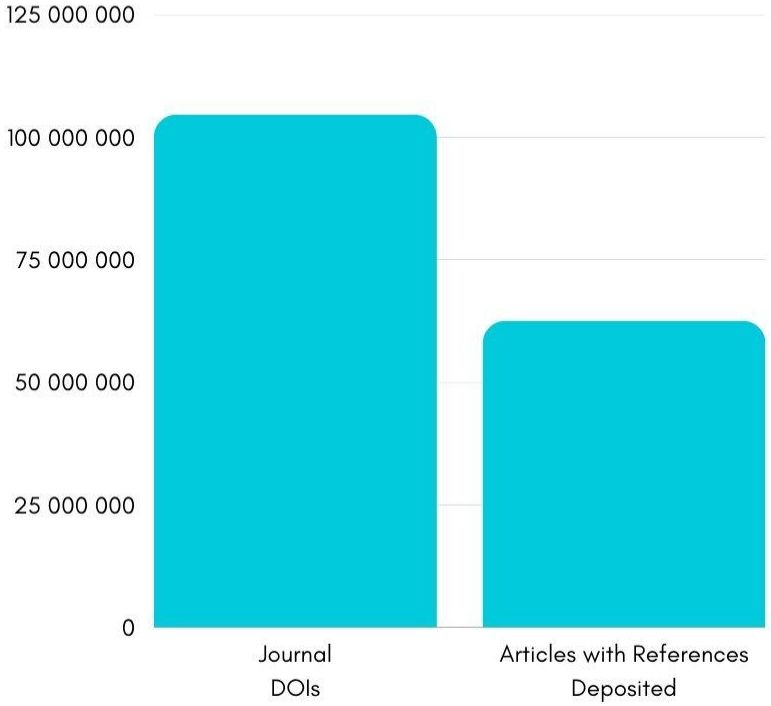
Joe Shlabotnik, Flickr

Challenges

Challenges faced by authors:

- Finding the correct citation style.
- Locating it in their citation manager.
- Ensuring correct referencing.

Use of DOIs



Observation

- Only half of the articles registered in Crossref provide reference lists with article metadata.
- Crossref's recognition of references depends on the provision of DOIs in references.
- Do journals require the provision of DOIs in references?

Why and what?

Goal of the study:

- Understand journal practices for citation guidelines.

Method:

- Analyzed 270 high-quality journals from Scopus (distribution by region).

Objectives:

- Prevalence of citation styles.
- How journals set citation style guidelines.
- Mandate of DOIs in references.

Results

- 54.1% of journals don't specify a citation style.

- Rankings of styles:
  - APA: 18.1%
  - Vancouver, Harvard, Chicago: 6.3% to 4.8%
  - ISO 690 and AMA: 4.1% and 3.3%

ChatGPT analysis

Image generated by DALL·E 3

Findings

Assessment goal:

- Determine conformity of unnamed reference styles.

Findings:

- Presence of known styles, but with slight modifications.

Implications:

- Complications with reference managers due to modified styles.

Concerns and impacts

The "unnamed" approach:

- More complexity for authors and potential incorrect formatting.

DOIs as a solution:

- 41.1% of journals request DOIs.
- 78.1% include DOIs in reference lists.

Additional insights

- No significant impact based on the country of origin.
- Influence is related to the journal's scientific field.
- No attention to reference styles.
- Lack of requirements to include DOIs.

Conclusion & Recommendations

- Need for standardization or clear guidelines.
- Emphasize the importance of DOIs in improving the referencing system.
- Need for education among journals and authors.

October 31, 2023

Who Cares?
Defining Citation Style in Scholarly Journals

Open for the questions.

Emails:
vincas.grigas@leidykla.vu.lt
kovarova@phil.muni.cz

#Crossref2023:
Updates from the community

FLASH TALKS

- Martin Fenner, Front Matter

DOI registration for scholarly blogs

Martin Fenner, Front Matter, Münster, Germany,
https://orcid.org/0000-0003-1419-2405

Scholarly blogs are an essential part of scholarly communication, but have not yet become a formal part of the scholarly record.

Here we present initial work on content registration for scholar blog posts with Crossref DOIs, named Rogue Scholar (https://rogue-scholar.org). We explored the interest by the scholarly community, the technical challenges, and the costs associated with building and maintaining this infrastructure.

Introduction

Blogs are a technology to publish content on the web that became popular in the early 2000s. Common functionalities include serial publication as *posts*, and *feeds* in RSS or Atom formats to automatically consume content and metadata.

The most common platform is Wordpress, but there are many open source and commercial alternatives.

The technology has been widely used to publish scholarly content, but with a few exceptions has not been integrated with traditional scholarly publishing efforts, including the use of persistent identifiers and standard metadata, and efforts on long-term preservation.

Use Cases

Scholarly blogs are a particularly good fit for some scholarly publishing use cases:

- Individual researchers self-publishing their work, or providing feedback on published work.
- Emerging publication efforts with limited resources.
- Provide context, e.g. editorials or perspectives, for other publication formats such as preprints, datasets, software, or traditional research articles.
- Front matter content from organizations or projects, e.g. news or announcements.

Initial Work

January 2023. Announced Rogue Scholar project, and opened a waitlist for interested blogs.

April 2023. Launched the initial service with support for importing blogs via RSS, Atom and JSON Feed.

June 2023. Started DOI registration and full-text search. Started extracting references from full-text. Twenty science blogs included.

August 2023. Added automated signup via user accounts. Launched payment system for larger blogs and donations.

September 2023. Added support for retrieving blog posts via API (Wordpress, Ghost, Substack). Initial Fediverse (Mastodon) integration. Fifty science blogs included.

October 2023. Launched initial version of a dedicated API. (https://api.rogue-scholar.org).

Results

DOI registration for scholarly blogs is feasible, cost-effective and of interest to the scholarly community, with close to 10,000 (9,139 as of October 19, 2023) blog posts from 63 blogs , using 12 different platforms in 4 languages, registered in less than six months.

DOi registrations work with existing blogs and don't require technical work by the blog (some configuration changes are helpful).

DOI registration includes rich metadata without major efforts by participating blogs, including abstract, license, language, ORCID IDs, references, and relationships (e.g. *IsIdenticalTo*, *IsTranslationOf*).

By requiring full-text content with an open license (CC-BY) and proving an open API, additional services reusing and mixing content are possible and encouraged. The first such service is a central full-text search.

Future Work

- **Long-term archiving with the Internet Archive**
  Signed up with the Internet Archive Archive-It service for long-term archiving of all participating blogs.
- **Improve and better document the open API**
  Further work on the dedicated API that was launched in October, including better integration with participating blogs, and additional metadata conversions.
- **Other output formats**
  Started working with the Zenodo open repository to provide blog posts in other formats, including PDF and ePub.

Wish List for Crossref

Going forward, the following improvements could make it easier to register scholarly blog posts as content with Crossref:

- Encourage other Crossref sponsors to work with science blogs.
- Add support for the content type *Blog Post* as sub-type of *Posted Content.*
- Add support for container name (the blog name) and container ID (e.g. ISSN and/or DOI) to *Posted Content* metadata.
- Consider adding *Feature Image* (optional, string), the URL of the main image for the content, to *Posted Content* metadata.

FLASH TALKS

- Izabela Szyprowska (OP, European Commission)
- Nikolaos Mitrakis (RTD, European Commission)
- Paola Mazzucchi (mEDRA)

Publications Office
of the European Union

GRANT DOIS AT THE EU PUBLICATIONS OFFICE

Izabela Szyprowska (Publications Office)

31/10/2023

Implementing DOIs for grants at the European Commission

Nikolaos MITRAKIS

Deputy Head of Unit

Directorate-General for Research & Innovation
Common Knowledge and Data Management Service Unit

31/10/2023

European Commission

Horizon Europe

- Horizon Europe is the **EU's key funding programme** for research and innovation

- It tackles **climate change**, helps to achieve the **UN's Sustainable Development Goals** and boosts the **EU's competitiveness and growth**.

- Programme duration: 2021-2027
- Total budget 2021-2027: € 95.51 billion

European Commission

Why DOIs for Grants?

- An **internal discussion** on the use of grant IDs lead in an agreement that the European Commission (EC) should issue grant IDs for Horizon Europe.

- The overall purpose for the EC is **to contribute** to the general **development of PIDs** in a mid- and long-term timescale.

- The idea underpinning this effort is that **the availability of PIDs** will become an important factor in the steering and evaluation of **R&I Policies**.

European Commission

Key Use Case of DOIs for Grants

- **Evaluation** and **monitoring** of the **impact** of the framework programme.

- Better **links between grants and related publications**, including other research outputs such as patents, prototypes, software components, etc

- **Objective**: Simplified analysis when the link is declared via a PID instead of as free-form text

Keep in touch

ec.europa.eu/

europa.eu/

@EU_Commission

@EuropeanCommission

European Commission

europeancommission

@EuropeanCommission

EUTube

EU Spotify

European Commission

Thank you

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Slide xx: element concerned, source: e.g. Fotolia.com; Slide xx: element concerned, source: e.g. iStock.com

European Commission

DEMOS, EXPERIMENTS AND Q&A

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

2023 BOARD SLATE

Tier 1 candidates (electing five seats):

- Beilstein-Institut, Wendy Patterson
- Korean Council of Science Editors, Kihong Kim
- Lujosh Ventures Limited, Olu Joshua
- NISC Ltd, Mike Schramm
- OpenEdition, Marin Dacos
- Universidad Autónoma de Chile, Dr. Ivan Suazo
- Vilnius University, Vincas Grigas

Tier 2 candidates (electing two seats):

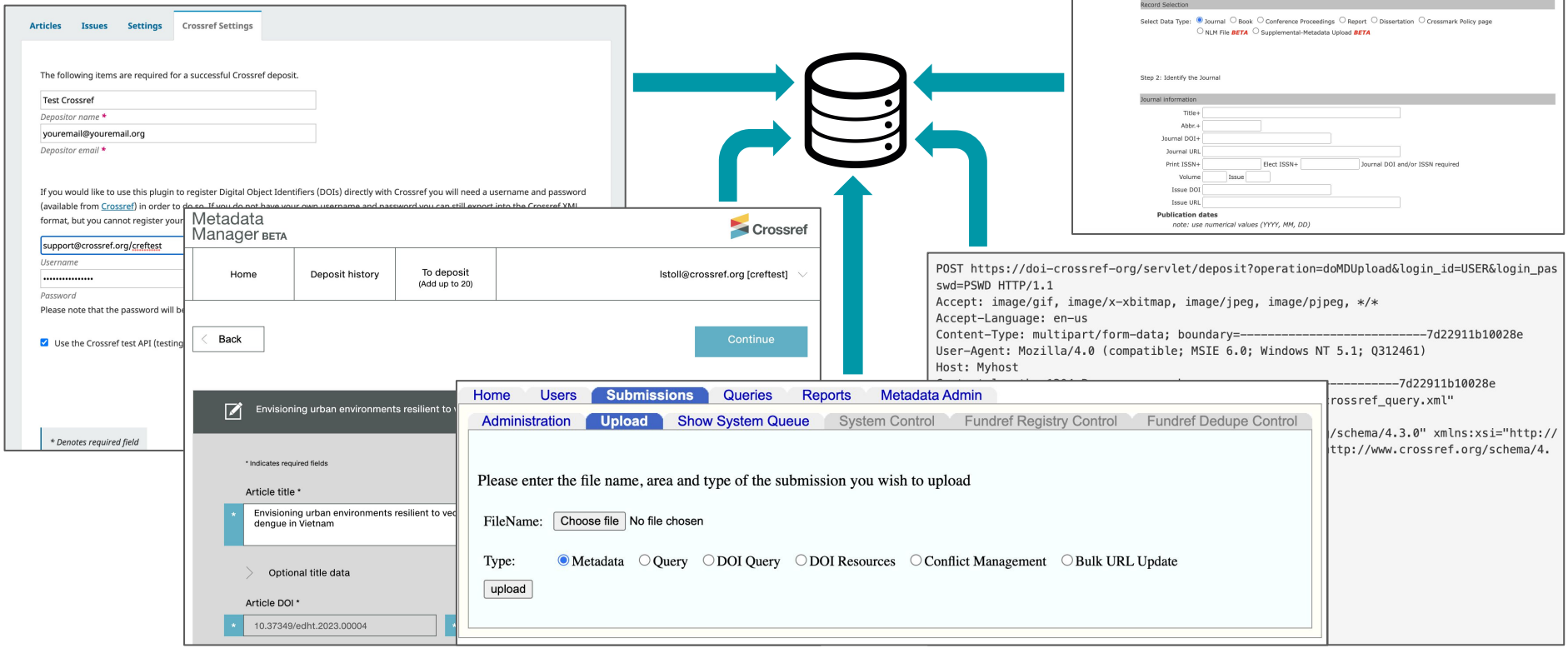
- Association for Computing Machinery (ACM), Scott Delman
- Oxford University Press, James Phillpotts
- Public Library of Science (PLOS), Dan Shanahan
- University of Chicago Press, Ashley Towne

Voting closes at 13:00 UTC
Email **lucy@crossref.org** if you still need to place or change your vote.

PRODUCT DEMO #1

- Making it easier for our members to register content
  - Simple content registration form for journal articles
  - Lena Stoll, Crossref

Another One..?


Articles
Issues
Settings
Crossref Settings
The following items are required for a successful Crossref deposit.
Test Crossref
Depositor name *
youremail@youremail.org
Depositor email *
If you would like to use this plugin to register Digital Object Identifiers (DOIs) directly with Crossref you will need a username and password (available from Crossref) in order to do so. If you do not have your own username and password you can still export into the Crossref XML format, but you cannot register your
support@crossref.org/creftest
Username
Password
Please note that the password will be
Use the Crossref test API (testing
* Denotes required field
Metadata Manager BETA
Crossref
Home
Deposit history
To deposit (Add up to 20)
lstoll@crossref.org [creftest]
Back
Continue
Envisioning urban environments resilient to
* Indicates required fields
Article title *
Envisioning urban environments resilient to vec
dengue in Vietnam
Optional title data
Article DOI *
10.37349/edht.2023.00004
Home
Users
Submissions
Queries
Reports
Metadata Admin
Administration
Upload
Show System Queue
System Control
Fundref Registry Control
Fundref Dedupe Control
Please enter the file name, area and type of the submission you wish to upload
FileName:
Choose file
No file chosen
Type:
Metadata
Query
DOI Query
DOI Resources
Conflict Management
Bulk URL Update
upload
Crossref
webDeposit
Ver. 1.56
The web deposit form allows Crossref members to deposit content and register DOIs. Learn more about how to use the web deposit form.
Note: Your Crossref username and password will be required at the end of this process to submit data to the system.
Step 1: Select Record Type
Record Selection
Select Data Type:
Journal
Book
Conference Proceedings
Report
Dissertation
Crossmark Policy page
NLM File BETA
Supplemental-Metadata Upload BETA
Step 2: Identify the Journal
Journal information
Title+
Abbr.+
Journal DOI+
Journal URL
Print ISSN+
Elect ISSN+
Journal DOI and/or ISSN required
Volume
Issue
Issue DOI
Issue URL
Publication dates
note: use numerical values (YYYY, MM, DD)
POST https://doi-crossref-org/servlet/deposit?operation=doMDUpload&login_id=USER&login_pas
swd=PSWD HTTP/1.1
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, */*
Accept-Language: en-us
Content-Type: multipart/form-data; boundary=----------7d22911b10028e
User-Agent: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)
Host: Myhost
----------7d22911b10028e
rossref_query.xml"
/schema/4.3.0" xmlns:xsi="http://
ttp://www.crossref.org/schema/4.

Another One..?

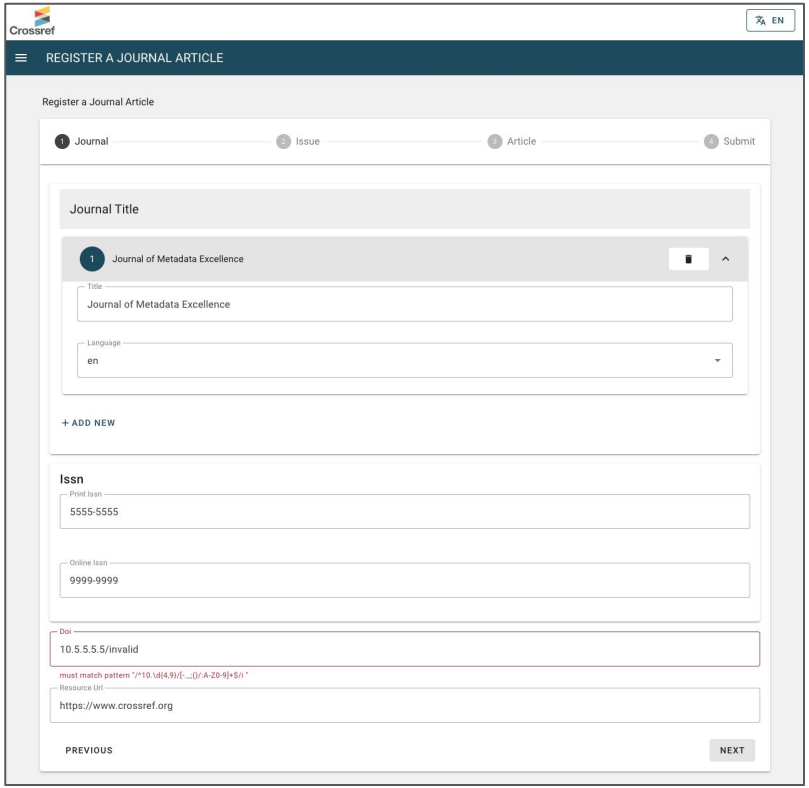
Each of the existing tools serves a different set of use cases.
Each of the existing tools has critical limitations.

With the new content registration tool, we aim to:

- Build on a flexible, scalable, and schema-driven framework
- Unify multiple disparate user interfaces
- Offer a localisable and accessible user experience

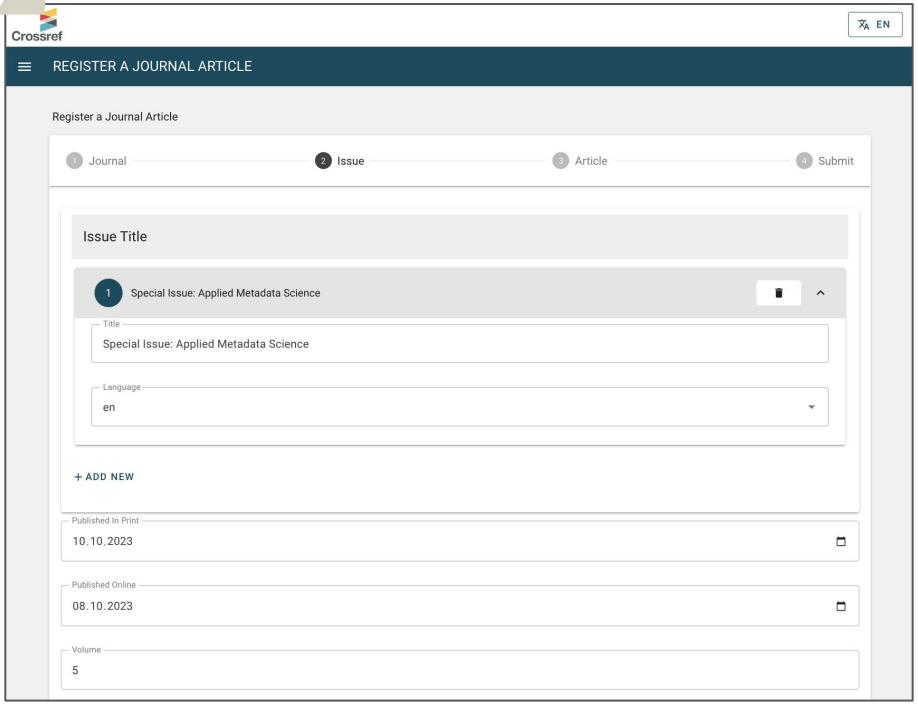
https://www.crossref.org/blog/next-steps-for-content-registration/

Sneak Peek at the New Tool



- Focus on key metadata fields
- Input validation to combat human error
- Localisable and accessible by design

Sneak Peek at the New Tool



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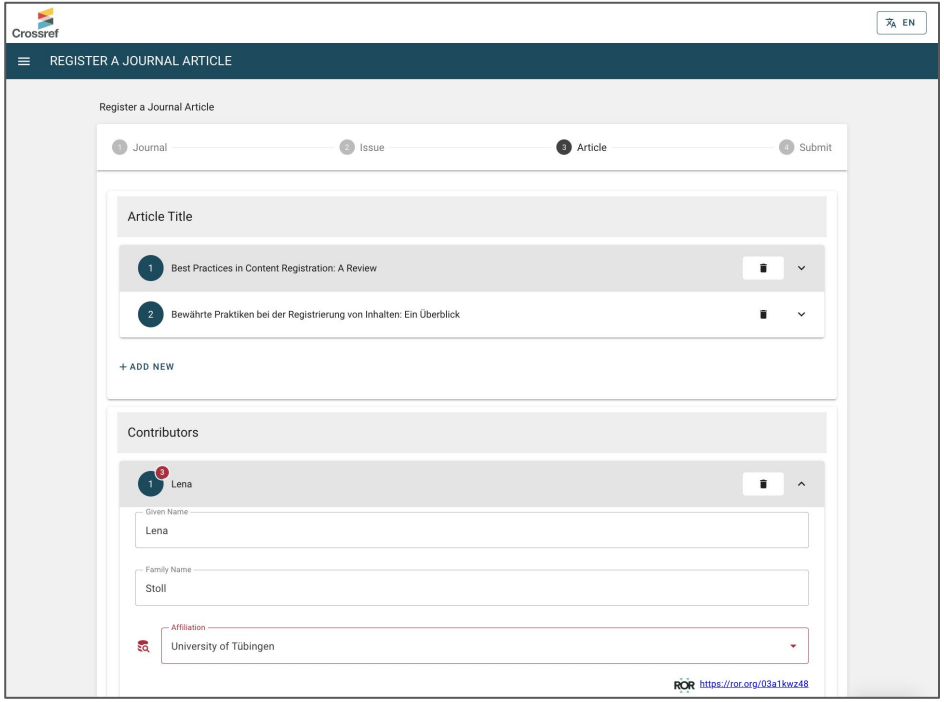

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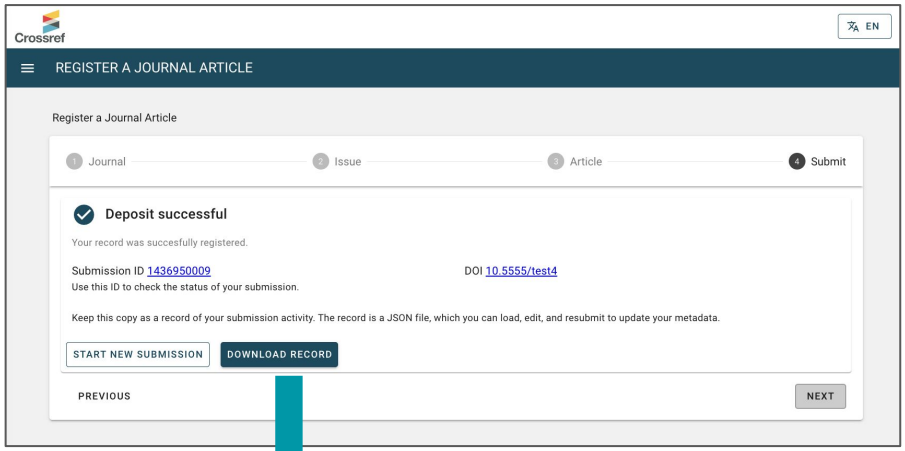
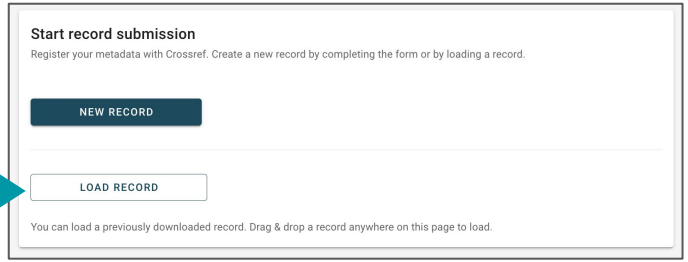
Sneak Peek at the New Tool



Coming soon:
Load in previously created records for easy editing



Next Steps

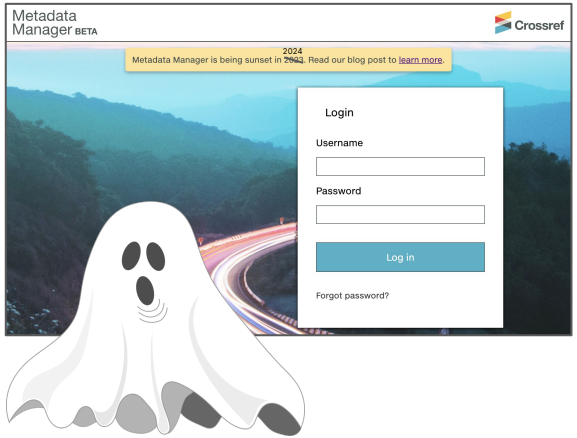
Share and Test Prototype

- Feedback from Crossref staff
- Feedback from Crossref Ambassadors
- User testing

Iterate and develop MVP

- Feedback from Crossref staff
- Feedback from Crossref Ambassadors
- User testing
- Wider community feedback
- Production rollout

Sunsetting Metadata Manager



Thank you!

- Grants registration form: https://manage.crossref.org/records
- Community Forum: https://community.crossref.org
- Email: lstoll@crossref.org

PRODUCT DEMO #2

- Making it easier for our members to register content
  - PKP's improvements to the OJS content registration plugin
  - Erik Hanson, PKP

PRODUCT DEMO #3

- Building the Research Nexus
  - Providing more comprehensive support for data citation
  - Martyn Rittman, Crossref

PRODUCT DEMO #4

- Building the Research Nexus
  - Making the most of metadata using Crossref's REST API
  - Luis Montilla, Crossref

…an intro to the Crossref API

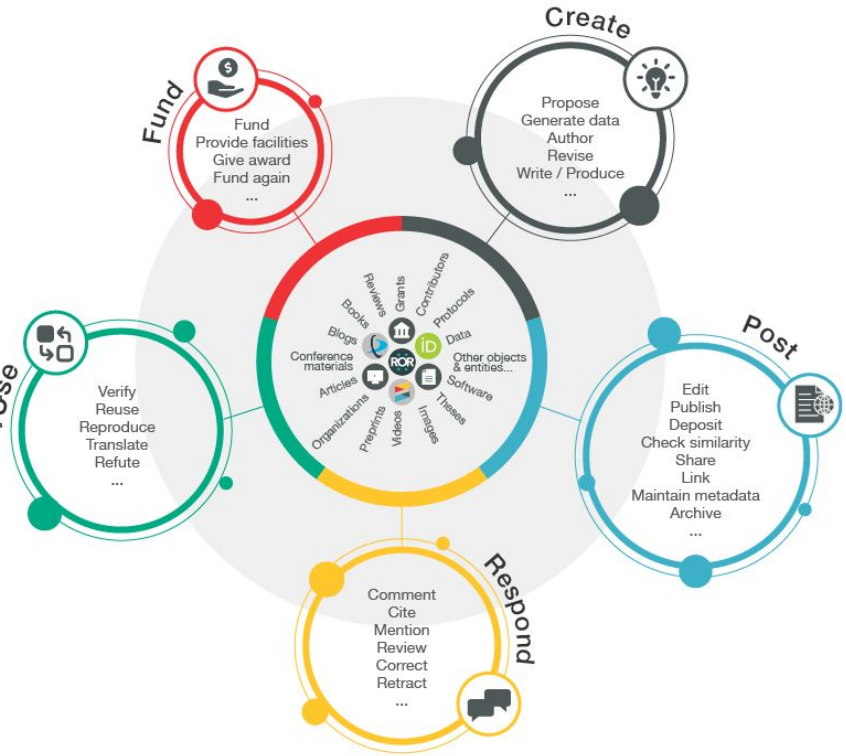
Or how I learned to love APIs

Luis Montilla
Technical Community Manager

The ‘research nexus’

“A rich and reusable open **network of relationships** connecting research organizations, people, things, and actions; a scholarly record that the global community can build on forever, for the benefit of society.”

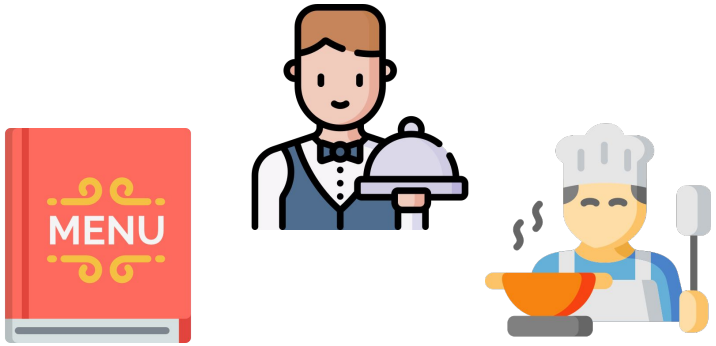
Metadata is the thread that is woven to produce such a network



We make this metadata open through our REST API

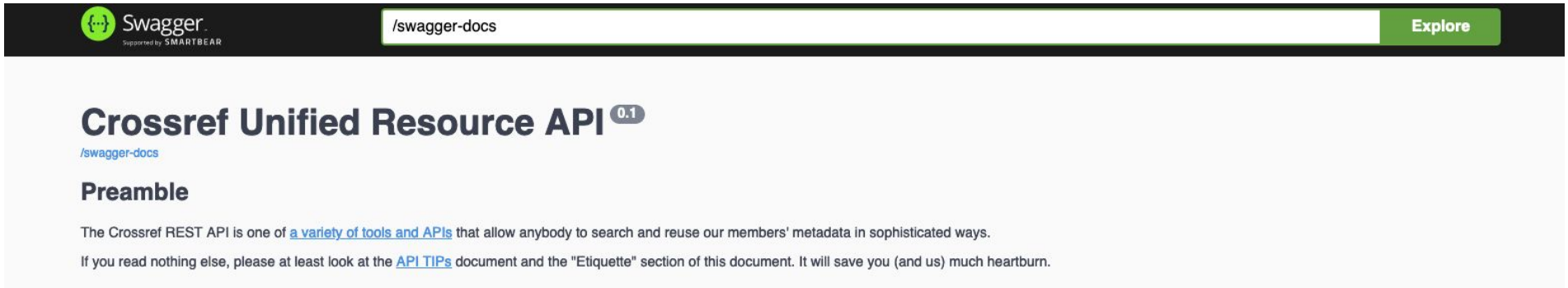
A software intermediary that allows two applications to talk to each other.

APIs are often compared to a waiter's service, facilitating communication between customers ordering items from a menu and the kitchen producing those items.



We make this metadata open through our REST API

https://api.crossref.org/



Good to remember...

Crossref

You have three access levels to the API metadata:

- Public. Free, fully anonymous.
- Polite. Free, you provide your email (recommended).[1]
  - We only use this information to contact you in case of issues.
  - Include ‘mailto’ field in your API query.
- Plus. Premium service, you get:
  - A service level agreement guaranteeing you extra service and support, giving you a consistent and predictable experience.
  - Additional features such as snapshots and priority service/rate limits.

[1] We get rid of your information after 90 days.

How to...?

We can send requests using a command line interface or pasting our queries in the web browser.

Alternatively, API clients are powerful tools to assist us in our data retrieval

You can also execute the queries directly in your web browser

POSTMAN

How to...?

https://api.crossref.org/v1/funders?query=german+research+foundation&mailto=your.name@org.org

Server

Endpoints

?Parameters

Who is providing the data?

Digital locations where an API receives requests about specific resources

They determine the type of action you want to take on the resource

Funders
Endpoints that expose funder related data

- GET /funders/{id}/works
- GET /funders/{id}
- GET /funders

Journals
Endpoints that expose journal related data

- GET /journals
- GET /journals/{issn}
- GET /journals/{issn}/works

Works
Endpoints that expose works related data

- GET /works/{doi}
- GET /works
- GET /works/{doi}/agency

Prefixes
Endpoints that expose prefix related data

- GET /prefixes/{prefix}/works
- GET /prefixes/{prefix}

Members
Endpoints that expose member related data

- GET /members/{id}/works
- GET /members/{id}
- GET /members

Types
Endpoints that expose type related data

- GET /types/{id}
- GET /types
- GET /types/{id}/works

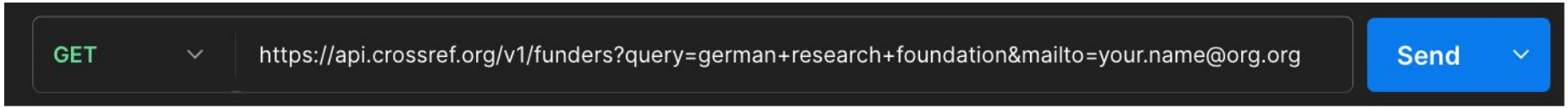
Let’s see some basic examples

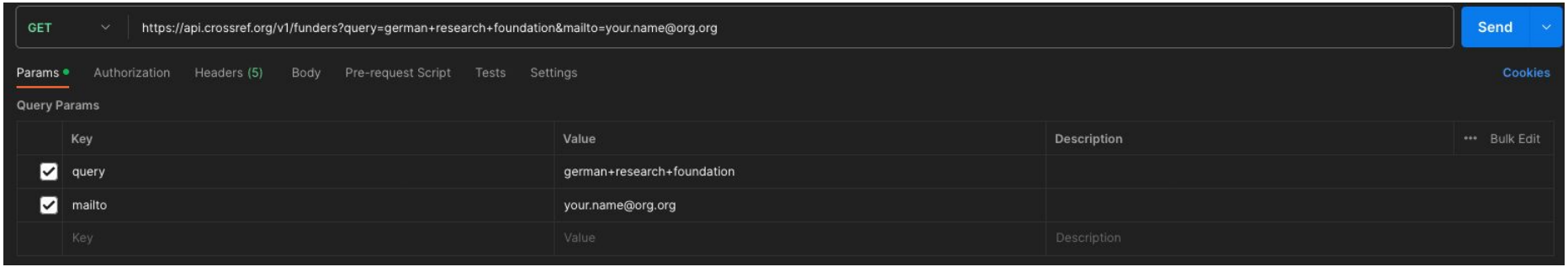
Funder to article relationships

“Funders do not automatically know when work they have funded is published, but it is important for reporting on the impact of grants.

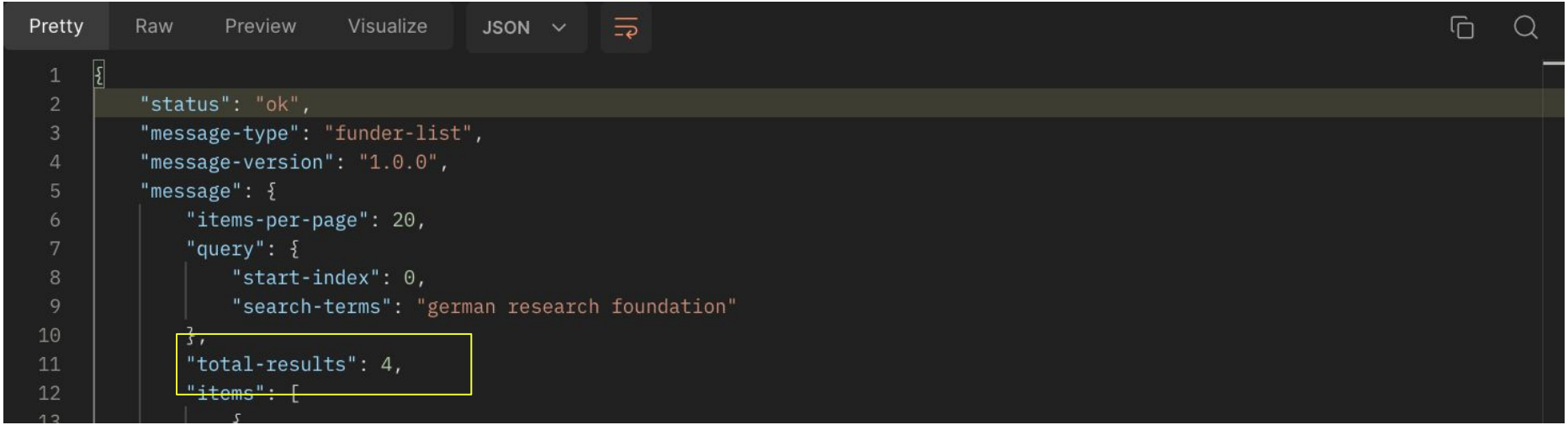
This is difficult for them to find out by some other means as publishers, authors, and institutions do not systematically report this information.”

Funder to article relationships





Article to funder relationships



Article to funder relationships

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        "id": "501100001659",
        "location": "Germany",
        "name": "Deutsche Forschungsgemeinschaft",
        "alt-names": [
            "German Research Association",
            "DFG",
            "German Research Foundation"
        ],
        "uri": "http://dx.doi.org/10.13039/501100001659",
        "replaces": [],
        "replaced-by": [],
        "tokens": [
            "deutsche",
            "forschungsgemeinschaft",
            "german",
            "research",
            "association",
            "dfg",
            "german",
            "research",
            "foundation"
        ]
    },
    {
        "id": "501100005970",
        "location": "Germany",
        "name": "Deutsche Stiftung für Herzforschung",
        "alt-names": [
            "German Heart Research Foundation"
        ],
        "uri": "http://dx.doi.org/10.13039/501100005970",
```

Article to funder relationships

Crossref

GET https://api.crossref.org/v1/funders/501100001659?mailto=your.name@org.org Send

Pretty Raw Preview Visualize JSON


```
    },
    "replaced-by": [],
    "work-count": 198520,
    "name": "Deutsche Forschungsgemeinschaft",
    "descendants": [],
    "descendant-work-count": 198520,
    "id": "501100001659",
    "tokens": [
        "deutsche",
        "forschungsgemeinschaft",
        "german",
        "research",
        "association",
        "dfg",
        "german",
```

Funder to article relationships

- You try it?

1. Visit https://api.crossref.org/
2. Scroll down to Funders and click GET
3. Scroll down to the parameter fields
4. Add your email to the mailto field
5. Add a funder organization to the query field
6. Click Execute

Funder to article relationships

You try it

Curl

```
curl -X 'GET' \
  'https://api.crossref.org/funders?query=german%20research%20foundation&mailto=lmontilla%40crossref.org' \
  -H 'accept: application/json'
```

Request URL

```
https://api.crossref.org/funders?query=german%20research%20foundation&mailto=lmontilla%40crossref.org
```

Server response

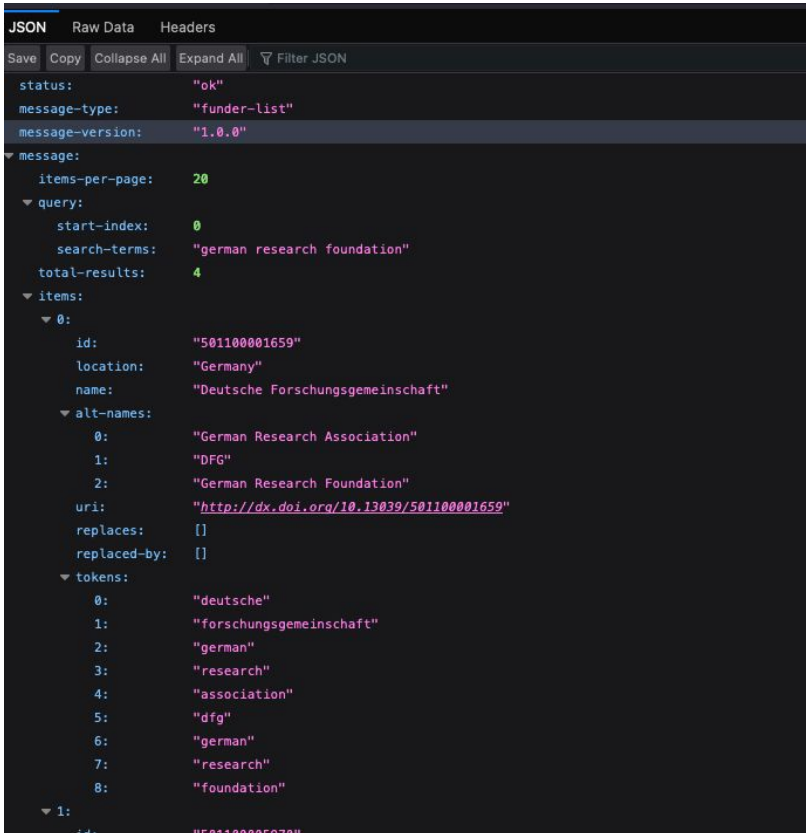
Code	Details
200	Response body


```
{
  "status": "ok",
  "message-type": "funder-list",
  "message-version": "1.0.0",
  "message": {
    "items-per-page": 20,
    "query": {
      "start-index": 0,
      "search-terms": "german research foundation"
    },
    "total-results": 4,
    "items": [
      {
        "id": "501100001659",
        "location": "Germany",
        "name": "Deutsche Forschungsgemeinschaft",
        "alt-names": [
          "German Research Association",
          "DFG",
          "German Research Foundation"
        ],
        "uri": "http://dx.doi.org/10.13039/501100001659",
        "replaces": [],
        "replaced-by": [],
```


Download

Funder to article relationships

You try it



Article to funder relationships

Funders

Endpoints that expose funder related data

GET `/funders/{id}/works`

Returns list of works associated with the specified {id}.

Queries

Free form search queries can be made, for example, works that include `renear` or `ontologies` (or both):

```
/works?query=renear+ontologies
```

Field Queries

Field queries allow for queries that match only particular fields of metadata. For example, this query matches records that contain the tok

```
/works?query.author=richard+feynman
```

Field queries can be combined with the general `query` parameter and each other. Each query parameter is ANDed with the others:

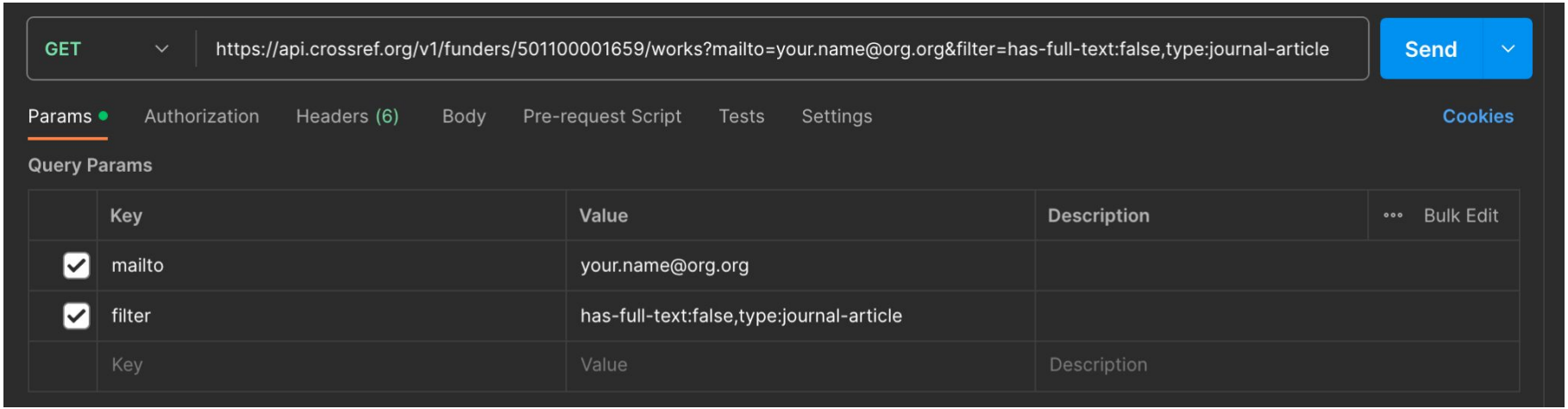
```
/works?query.title=room+at+the+bottom&query.author=richard+feynman
```

This endpoint supports the following field queries:

- `query.affiliation` - query contributor affiliations
- `query.author` - query author given and family names
- `query.bibliographic` - query bibliographic information, useful for citation look up, includes titles, authors, ISSNs and publication years
- `query.chair` - query chair given and family names
- `query.container-title` - query container title aka. publication name
- `query.contributor` - query author, editor, chair and translator given and family names
- `query.degree` - query degree
- `query.description` - query description
- `query.editor` - query editor given and family names
- `query.event-acronym` - query acronym of the event
- `query.event-location` - query location of the event
- `query.event-name` - query name of the event
- `query.event-sponsor` - query sponsor of the event
- `query.event-theme` - query theme of the event
- `query.funder-name` - query name of the funder
- `query.publisher-location` - query location of the publisher
- `query.publisher-name` - query publisher name
- `query.standards-body-acronym` - query acronym of the standards body
- `query.standards-body-name` - query standards body name
- `query.title` - query title
- `query.translator` - query translator given and family names

Article to funder relationships

How many are openly available?



Try it out!

https://api.crossref.org/v1/funders/501100001659/works?mailto=your.name@org.org&filter=has-full-text:false,type:journal-article

ID of interest

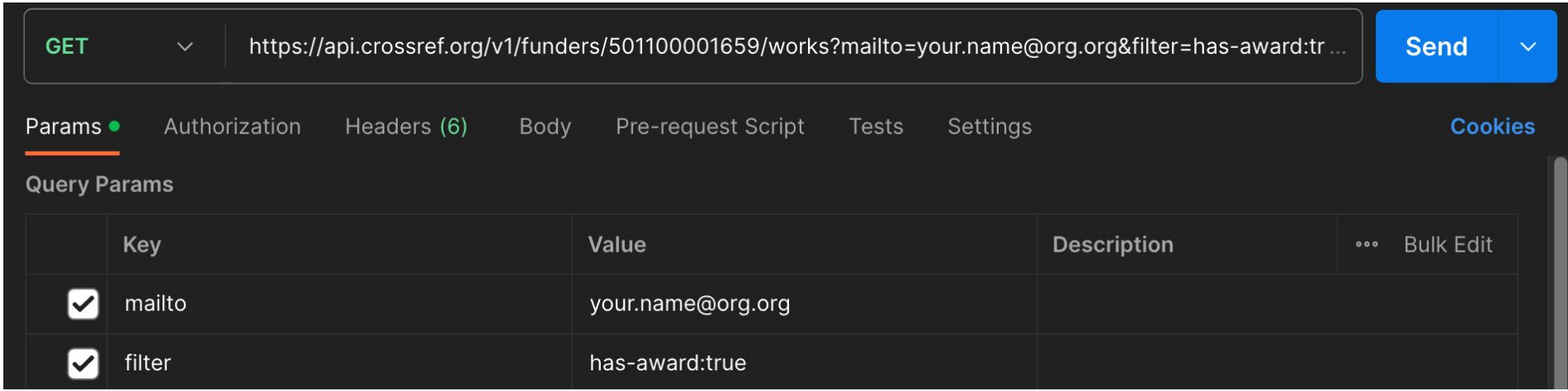
email

Filter 1

Filter 2

Article to funder relationships

Which specific grant(s) were awarded?



Article to funder relationships

Which specific grant(s) were awarded?

Query Params

	Key	Value
☑	mailto	lmontilla@crossref.org
☑	filter	has-award:true
☑	facet	published:*
	Key	Value

Body Cookies (2) Headers (19) Test Results Status: 20


```
"status": "ok",
"message-type": "work-list",
"message-version": "1.0.0",
"message": {
    "facets": {
        "published": {
            "value-count": 51,
            "values": {
                "2021": 23780,
                "2022": 22652,
                "2020": 22416,
                "2019": 20302,
                "2018": 18040,
                "2023": 16152,
                "2017": 15188,
                "2016": 12593,
                "2015": 9247,
                "2014": 4535,
                "2013": 1302,
                "2011": 989,
                "2012": 984,
                "2010": 668,
                "2009": 383,
                "2008": 278,
```

Works related to authors

https://api.crossref.org/v1/funders/501100001659/works?mailto=your.name@org.org&filter=has-full-text:false,type:journal-article

https://api.crossref.org/works?mailto=lmontilla@crossref.org&filter=orcid:0000-0002-7079-6775

PRODUCT DEMO #5

- Building the Research Nexus
  - Viewing and using Retraction Watch data via the Crossref Labs API
  - Martin Eve, Rachael Lammey, Crossref

Retraction Watch & Crossref

12th September 2023 —— The Center for Scientific Integrity, the organisation behind the Retraction Watch blog and database, and Crossref, the global infrastructure underpinning research communications, both not-for-profits, announced today that the Retraction Watch database has been acquired by Crossref and made a public resource. An agreement between the two organisations will allow Retraction Watch to keep the data populated on an ongoing basis and always open, alongside publishers registering their retraction notices directly with Crossref.

https://doi.org/10.13003/c23rw1d9

What kind of things can I do with the data?

- Build interfaces, tools and services or add functionality existing tools
- Notify: streamline existing workflows and build new ones
- Research the research

The use cases above can only be enabled with comprehensive, high quality, open data on retractions.

Retraction Watch & Crossref

- The full dataset has been released through Crossref's Labs API, initially as a .csv file to download directly: https://api.labs.crossref.org/data/retractionwatch?name@email.org (add your 'mailto').
- The Crossref Labs API also displays information about retractions in the /works/ route when metadata is available, such as https://api.labs.crossref.org/works/10.2147/CMAR.S324920?name@email.org (add your 'mailto'). We'd recommend using a .json viewer to look at the information using a browser.

```
"message": {
   "cr-labs-updates": [
      {
         "about": {
            "source": "This work has an update record associated with it, asserted
            by Retraction Watch.",
            "source_url": "https://retractionwatch.com",
            "stability": "The keys used in this API block are unstable and subject
            to change at any future time."
         },
         "asserted-by": "https://ror.org/005b4k264",
         "target-doi": "https://doi.org/10.2147/CMAR.S358886",
         "reasons": [
            "Concerns/Issues About Image",
            "Duplication of Image",
            "Original Data not Provided",
            "Unreliable Data"
         ],
         "update-nature": "Retraction",
         "notes": "",
         "urls": [
            ""
         ],
         "update-date": "2022-01-20 00:00:00"
      }
```

PRODUCT DEMO #6

- Building the Research Nexus
  - What does preservation look like for Crossref members and how can we support it?
  - Martin Eve, Crossref

PRODUCT DEMO #7

- Building the Research Nexus
  - Introducing a tool for registering DOIs for static site generators
  - Esha Datta, Crossref
- Repository (https://gitlab.com/crossref/labs/static-page-id-generator/)

PRODUCT DEMO #7

1. Track files in a static site git repository specified by the user

2. Generates unique id for tracked files which are turned into DOIs

- For Crossref members
  - Features 1 & 2
  - Generates xml deposit files
  - Deposits the xml to Crossref
  - Registers the DOIs,
  - Adds DOIs back to the tracked files in question

- For non-Crossref members
  - Only Feature 1 & 2
  - Plugin functionality will be in development soon
- Demo video

THANKS

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

WHAT DO WE STILL NEED TO BUILD A ROBUST RESEARCH NEXUS?

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions or ✋
- The slides and recordings will be shared afterwards

VISION

Like others… we envision

“a rich and reusable open network of relationships connecting research organizations, people, things, and actions; a scholarly record that the global community can build on forever, for the benefit of society."

‘RESEARCH NEXUS’ PANEL

- Matt Buys, DataCite
- Ran Dang, Atlantis Press
- Patricia Feeney, Crossref
- Ginny Hendricks, Crossref
- Mercury Shitindo, St. Paul's University, Kenya
- Kevin Stranack, PKP
- Ludo Waltman, CWTS Leiden University

ANNUAL MEETING

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

CROSSREF STRATEGY

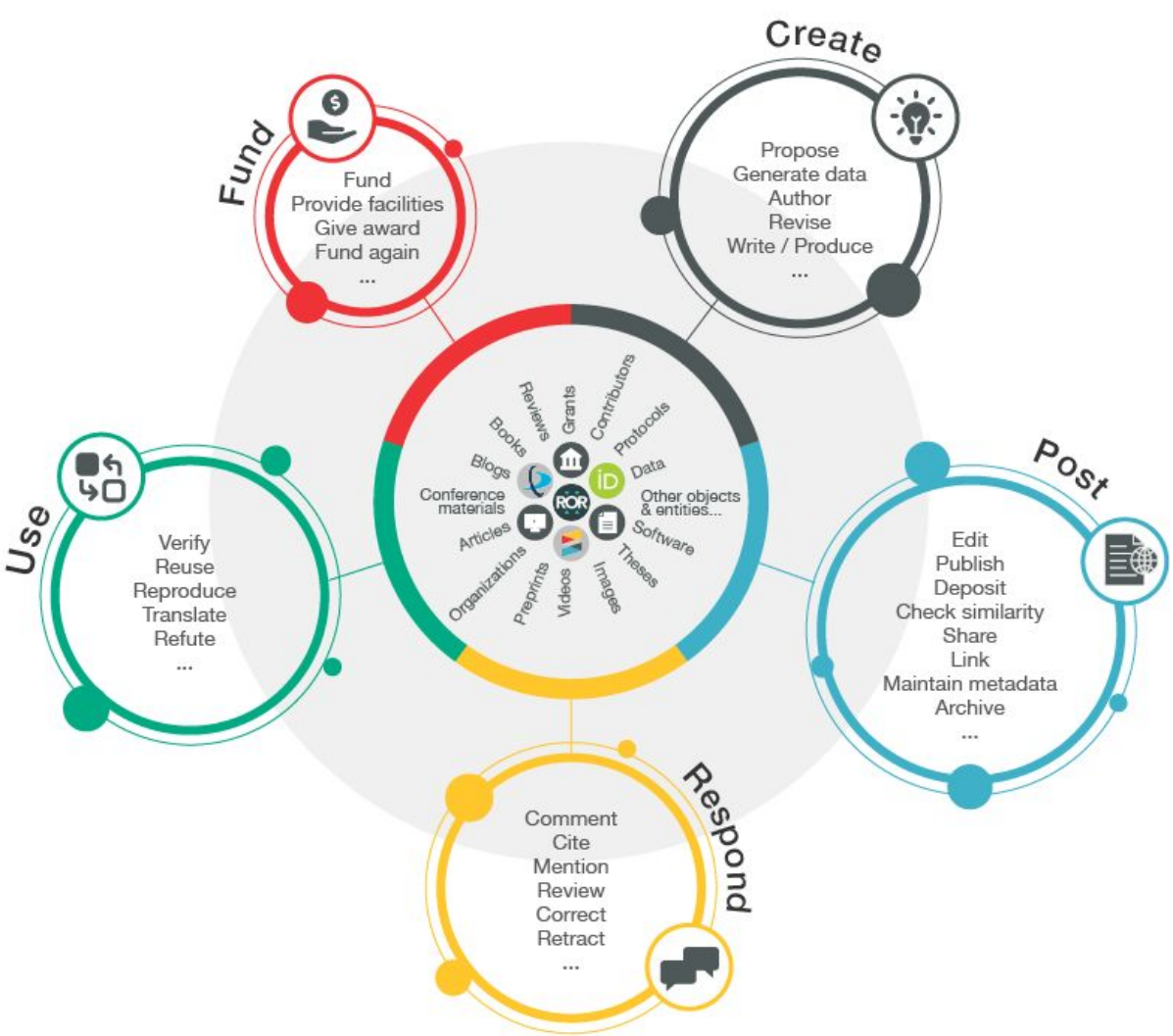
VISION

Like others… we envision

“a rich and reusable open network of relationships connecting research organizations, people, things, and actions; a scholarly record that the global community can build on forever, for the benefit of society."

MISSION

Crossref makes research objects easy to find, cite, link, assess, and reuse. We're a not-for-profit membership organization that exists to make scholarly communications better.



WHAT WE'RE AIMING FOR

- Bringing together the disparate parts of the scholarly record
- Better view of relationships (beyond PIDs)
- Exposing internal stuff publicly
- Enabling multi-party assertions
- Evidence. Provenance. Persistence.
- **60% of this is possible, the rest is aspirational**

Records	As of Oct 2018	As of Oct 2023	% change
Total records registered	100,774,749	151,255,483	50%
Number of Journals	62,226	123,336	98%
Number of Journal articles	73,957,459	102,775,406	105%
Number of Books	1,285,818	1,913,683	49%
Number of Book-related records	14,288,511	24,576,712	72%
Number of Conference proceedings	62,190	105,077	69%
Number of Conference papers	5,477,054	8,125,166	48%
Number of Preprints	79,084	1,637,103	1970%
Number of Reports	586,195	746,921	27%
Number of Peer reviews	13,456	421,782	3035%
Number of Standards	257,470	378,946	47%
Number of Components	3,454,155	7,865,443	128%
Number of Databases	21,806	63,926	193%
Number of Database-related records	1,704,946	2,919,950	71%
Number of Dissertations	240,407	618,951	157%
Number of Grants	6	87,259	1454217%

Growth slowing gradually over the years from 13% 7-8 years ago, to 10% 3-4 years ago, to now under 8% from 2022-23

Preprints still growing, particularly from American Association for Cancer Research (AACR)

Peer review reports also growing, this is typical growth the last few years

Grant records have more than doubled, thanks to the European Commission

Research Nexus connections	As of Oct 2018	As of Oct 2023	% change
Records with references	41,516,410	66,508,539	60%
Number of Cited-by matches	758,372,968	1,542,481,107	103%
Number of Preprint-to-article links	17,883	555,134	3004%
Number of unique records with Funder IDs	2,431,939	8,099,744	233%
Records with one or more authors with ORCID iDs	1,950,216	12,114,204	521%
Total unique ORCID iDs	1,293,649	6,093,373	371%
Total works auto-pushed to ORCID	1,363,337	16,256,452	1092%
Records with abstracts	2,707,893	26,814,551	890%
Records with ROR IDs	n/a	73,560	n/a
Records with Crossmark	7,747,598	25,013,338	223%
Crossmark status updates	93,223	267,583	187%
Crossmark retractions	4,477	14,004	213%
Crossmark popup displays (av. per month)			

Research Nexus adoption	As of Oct 2018	As of Oct 2023	% change
Members registering references	4,636	10,158	119%
Members registering abstracts	3,645	22,312	512%
Members participating in Crossmark	324	516	59%
Members registering ORCID iDs	3,645	15,154	316%
Members registering ROR IDs	n/a	290	n/a
Members registering Funder IDs	746	2,161	190%

Preprint to article links rising

ORCID Auto-update going well. And we reached 3 million authors granting us permission

No. retractions still very small (compared to RW) and No. members using Crossmark still small

The I4OA message is starting to get traction. Wiley!

ABS TRA CTS

OUR STRATEGY

Contribute to an environment where the community identifies and co-creates solutions for broad benefit

A sustainable source of complete, open, and global scholarly metadata and relationships

Publicly accountable to the Principles of Open Scholarly Infrastructure (POSI) practices of sustainability, insurance, and governance

Foster a strong team—because reliable infrastructure needs committed people who contribute to and realise the vision, and thrive doing it

Recently completed

- New form for funders to register grant records
- Confirmed plans for merging Funder Registry into ROR
- Launched Global Equitable Membership (GEM) program
- Acquired and opened Retraction Watch database; entered an agreement to grow the service together with Center for Scientific Integrity
- Reached our 12-month contingency fund goal
- Agreed and published our new travel and events policy

In focus

- Move from data center to cloud
- Identify patterns in and match metadata
- Adoption activities - top metadata priorities: references; abstracts; grants; ROR
- Deliver data citation via the relationships API endpoint
- 2022/3 POSI self-assessment update
- Project to assess how our resourcing supports sustainability
- Reviewing governance processes and board diversity

Up next

- Community consultation regarding Crossmark
- Labs to redevelop participation reports
- 2024 all staff retreat
- Reviewing recruitment and compensation practices

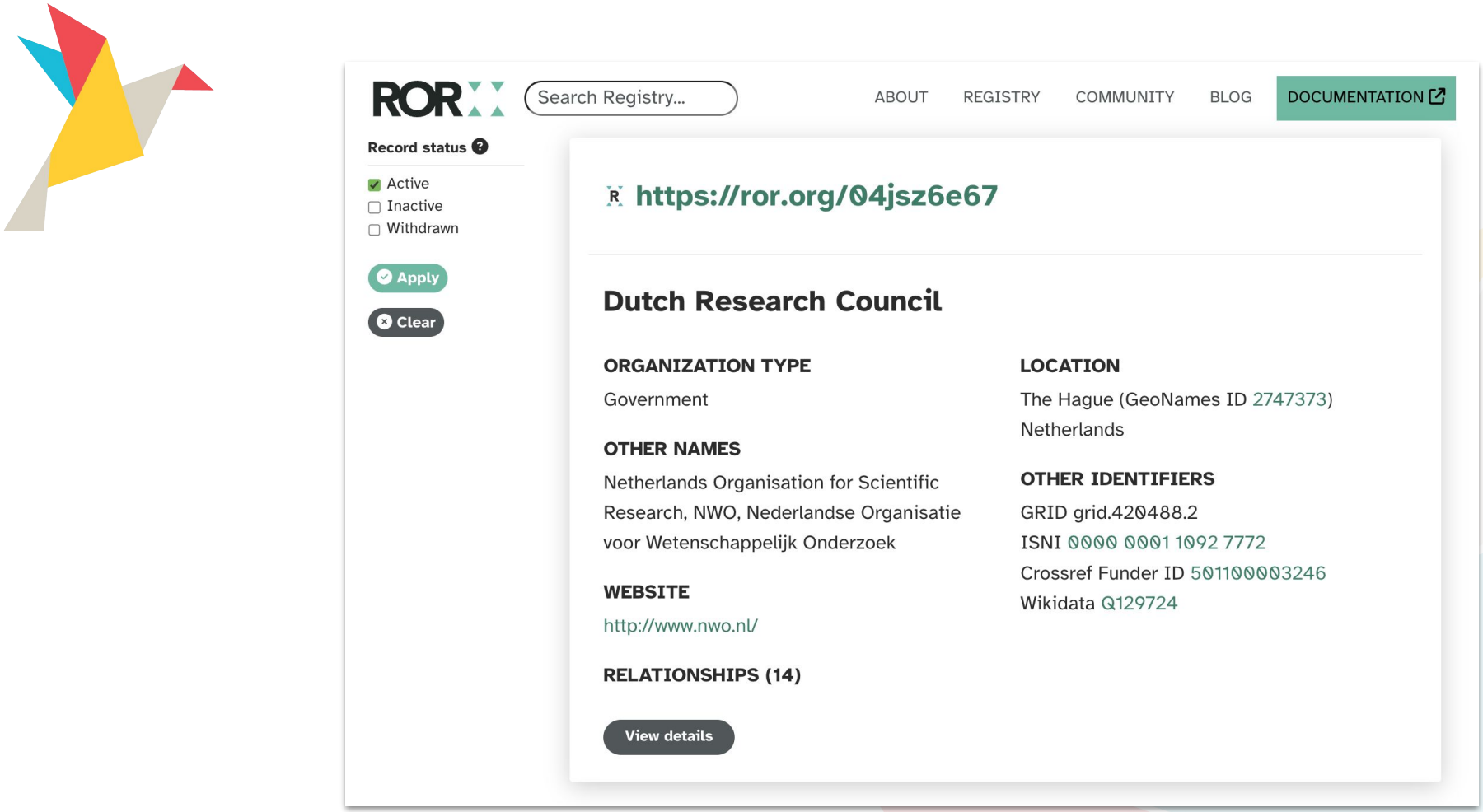
Under consideration

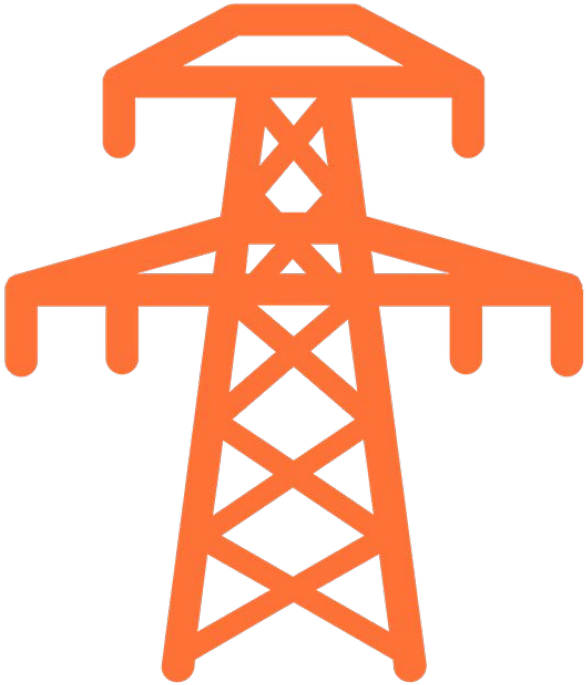
- How do we best gather changes and notify changes to metadata?
- Monitoring research integrity community developments and tools
- Evaluate AI detection functionality

source: crossref.org/strategy

AFFILIATIONS

“The Research Organization Registry (ROR) is a global, community-led registry of open persistent identifiers for research organizations. ROR makes it easy for anyone or any system to disambiguate institution names and connect research organizations to researchers and research outputs.”


ROR
Search Registry...
ABOUT
REGISTRY
COMMUNITY
BLOG
DOCUMENTATION
Record status
Active
Inactive
Withdrawn
Apply
Clear
https://ror.org/04jsz6e67
Dutch Research Council
ORGANIZATION TYPE
Government
OTHER NAMES
Netherlands Organisation for Scientific Research, NWO, Nederlandse Organisatie voor Wetenschappelijk Onderzoek
WEBSITE
http://www.nwo.nl/
RELATIONSHIPS (14)
View details
LOCATION
The Hague (GeoNames ID 2747373)
Netherlands
OTHER IDENTIFIERS
GRID grid.420488.2
ISNI 0000 0001 1092 7772
Crossref Funder ID 501100003246
Wikidata Q129724



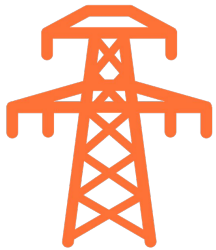
The Principles of Open Scholarly Infrastructure

Trust must run strongly across each of the following areas: running the infrastructure (governance), funding it (sustainability), and preserving community ownership of it (insurance). In this spirit, we have drafted a set of design principles we think could support the creation of successful shared infrastructures.

Bilder G, Lin J, Neylon C (2015) Principles for Open Scholarly Infrastructure-v1
http://dx.doi.org/10.6084/m9.figshare.1314859

Supporting Open Research

Openscholarlyinfrastructure.org



DOAJ

CORE

DataCite
FIND, ACCESS, AND REUSE DATA

Europe PMC

Created by Logan
from Noun Project

OpenCitations

DRYAD

OpenAIRE

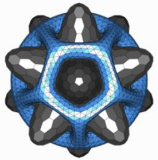
Crossref

sciety

open
Open Access

ROR

Liberate Science



Journal of Open Source
Software Blog

oaswitchboard

OurResearch

LIVING UP TO POSI (IN PRACTICE)

- **Review of governance**: broadening our board: Call for nominations
- **Sustainability**: 12 month reserve fund; publishing more about our operations
- **Open and available data**: Open APIs & Search; releasing public metadata files; open references
- **Open source**: support, code, issues, bug-fixing
- **Partnership plan**: closer alliances with several other open infrastructure organisations

OUR PEOPLE - THANK YOU!

THANKS TO PARTNERS AND ADVOCATES

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

crossref_ambassadors + 22 • 20d

Crossref Ambassadors

Our Crossref Ambassador map on Padlet helps us visualise our distribution, get to know each other from the context of our countries and find opportunities for regional collaboration.

Samarinda, East Kalimantan

Samarinda, East Kalimantan

China

China

587MRM6Q+62

Bruna Erlandsson

Nigeria

Nigeria

대한민국

대한민국

Yaoundé, Cameroon

Yaoundé, Cameroon

Bogotá

Nicolás Mejía-Torres

I
Ambassador
Crossref

Highlights

crossref.org/community/ambassadors

Plugins OJS Crossref:
Configuração e utilização

Edilson Damasio
Embaixador do Crossref

Ambassador Crossref

Crossref

@CrossrefOrg

COMMUNITY GROUPS

Advisory Groups

- Similarity Check
- Funders
- Preprints

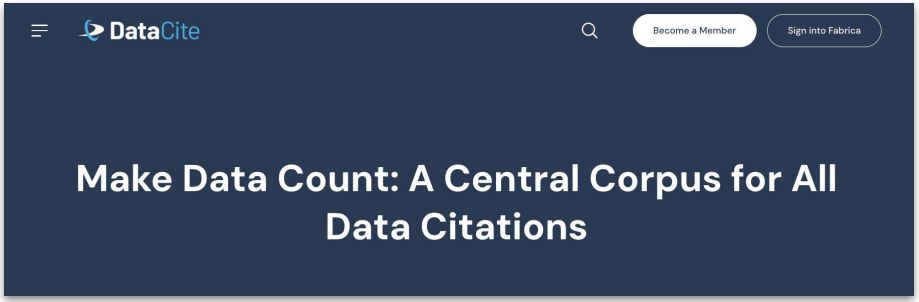
Interest Groups

- Books
- Metadata practitioners

Committees (board-based)

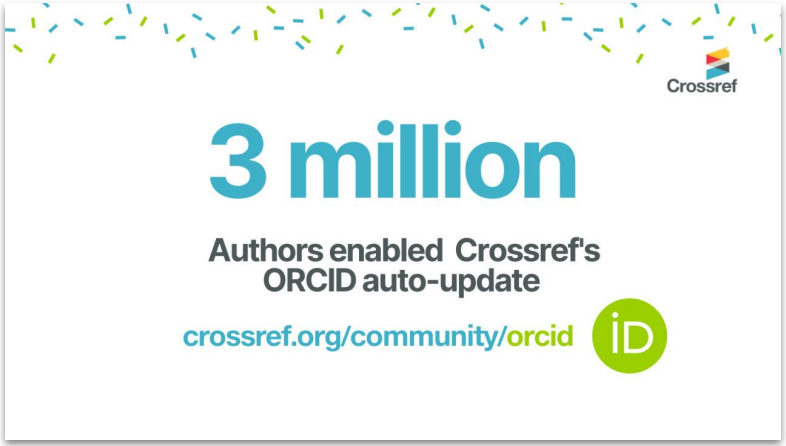
- Executive
- Audit
- Nominating
- Membership & Fees

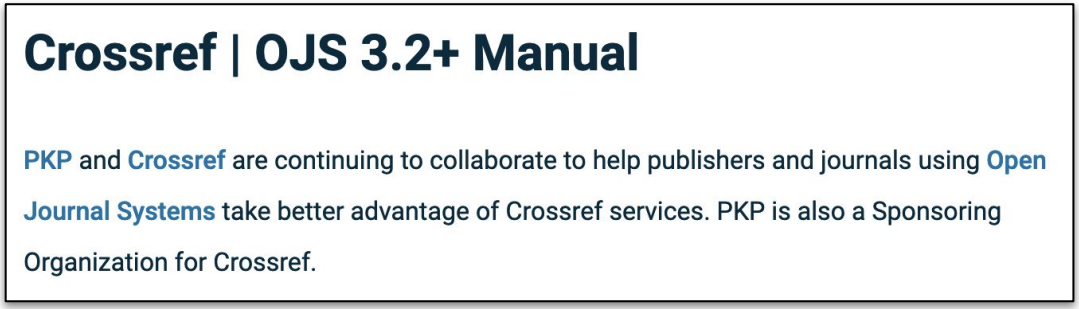
crossref.org/working-groups



[A Central Corpus for All Data Citations]

[DOAJ and Crossref sign agreement to remove barriers to scholarly publishing for all, June 2021]





[Crossref OJS 3.2+ Manual]

The PLACE

The **Publishers Learning And Community Exchange (PLACE)** is an online public forum for organisations who wish to adopt best practices in scholarly publishing. Publishers can access information from multiple agencies in one place, ask questions of the experts and join conversations with each other.

https://theplace.discourse.group/

Publishers Learning & Community Exchange

COMMUNITY FORUM

15.59%

Growth since October 2022
Community forum page views 2022 (2022-January-01 to 2022-October-24): 634,827
Community forum page views 2023 (2023-January-01 to 2023-October-24): 733,816

17.16% increase in total posts in 2023 compared to 2022

Join us in the forum for open, community, many-to-many support!
Our tickets of the month are a great place to start!

Top 10 most active community contributors

- edamasio - 1.6K
- BrunaErlandsson - 695
- Anjum - 672
- hdogan - 470
- AlexeySkalaban - 400
- cybermon - 395
- michaelolson - 393
- mccurley - 376
- rhiannon-ppl - 360
- abec - 358

community.crossref.org

MEMBER GOVERNANCE & BOARD ELECTION

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

Crossref financial performance	Year end	Year end	Actual	Actual	Forecast	Change
2019-2023	12/31/2019	12/31/2020	2021 Total	12/312022	12/31/2023	23 v '22
(amounts shown in US dollar)	Actual	Actual	Actual	Actual	Forecast (9+3)	Variance
Earned Revenues:						
Annual Fees						
Membership Fees	2,419,550	2,654,482	2,893,999	3,059,335	3,155,252	3%
Subscriber Fees	800,254	821,692	926,759	1,010,800	1,033,680	2%
Similarity Check Fees	177,407	185,384	192,959	196,929	204,410	4%
Total Annual Fees	**3,397,211**	**3,661,558**	**4,013,717**	**4,267,064**	**4,393,342**	3%
Service Fees						
Content Registration Fees	5,901,455	6,033,219	6,467,340	6,586,139	7,030,744	7%
Content Registration Fees - Donated	(61,715)	(46,554)	(47,647)	(143,013)	(182,141)	27%
Similiarty Check Usage (net)	94,758	467,489	693,006	785,795	703,807	-10%
Total Service Fees	**5,934,498**	**6,454,155**	**7,112,699**	**7,228,921**	**7,552,411**	4%
Total Subcontract Revenue	0	0	171,447	170,170	289,193	
Total Earned Revenue	9,331,709	10,115,713	11,297,863	11,666,156	12,234,946	5%
Operating Expenses						
Personnel	5,740,359	5,589,782	6,367,184	6,533,962	7,381,242	13%
Non-personnel	2,664,091	2,151,213	2,127,977	2,614,178	3,387,278	30%
Total Operating Expenses	8,404,449	7,740,995	8,495,162	9,148,140	10,768,520	18%
Other Income & Expense	199,240	100,090	58,560	(389,729)	225,015	
Net income/loss	1,126,499	2,474,808	2,861,262	2,128,287	1,691,440	-21%

Membership revenue growing, but at a slower rate

Content registration up again after slowing last year

Increase from GEM program

Expenses are still bouncing back from Covid, inflation

Increased hosting fees (AWS) and resumed travel

OVERVIEW OF CROSSREF GOVERNANCE

- 501(c)6 organization, a trade association
- To be eligible for the Board, a Director must be an employee or officer of a member organization. Once a Director is elected, the member organization can appoint an alternate for such Director. Board seat belongs to the organization, not the individual.
- Board members serve 3-year terms and are eligible for reelection with no term limits
- Corporate officers (Chair and Treasurer) are elected by the board to serve one-year terms, for up to to three consecutive years
- All board members agree to a whistleblower policy and a conflicts of interest disclosure policy

OVERVIEW OF CROSSREF GOVERNANCE

The role of the board at Crossref is to provide strategic and financial oversight of the organization, as well as guidance to the Executive Director and the staff leadership team, with the key responsibilities being:

- Setting the strategic direction for the organization;
- Providing financial oversight; and
- Approving new policies and services.

ANNUAL MEETING ELECTION

- Notice of Annual meeting sent September 27th, 2023
- Review of Nominating Procedure

2023 BOARD NOMINATIONS

2023 Nominating committee

- Aaron Wood, APA, chair*
- Oscar Donde, Pan Africa Science Journal*
- David Haber, American Society for Microbiology
- Rose L'Huillier, Elsevier*
- Marie Soulière, Frontiers

* indicates Crossref board member

NOMINATION PROCESS

- Board composition review
- Public call for nominations
- 87 respondents
- Committee reviews and discussed candidates

Interested in next year? Stay tuned for the call for expressions of interest in April/May 2024

2023 Board slate

Tier 1 candidates (electing five seats):

- Beilstein-Institut, Wendy Patterson
- Korean Council of Science Editors, Kihong Kim
- Lujosh Ventures Limited, Olu Joshua
- NISC Ltd, Mike Schramm
- OpenEdition, Marin Dacos
- Universidad Autónoma de Chile, Dr. Ivan Suazo
- Vilnius University, Vincas Grigas

Tier 2 candidates (electing two seats):

- Association for Computing Machinery (ACM), Scott Delman
- Oxford University Press, James Phillpotts
- Public Library of Science (PLOS), Dan Shanahan
- University of Chicago Press, Ashley Towne

2023 Board election final results

Tier 1 candidates (electing five seats):

- Beilstein-Institut, Wendy Patterson
- Korean Council of Science Editors, Kihong Kim
- OpenEdition, Marin Dacos
- Universidad Autónoma de Chile, Dr. Ivan Suazo
- Vilnius University, Vincas Grigas

Tier 2 candidates (electing two seats):

- Oxford University Press, James Phillpotts
- University of Chicago Press, Ashley Towne

ANY OTHER BUSINESS?

SPOTLIGHT ON COMMUNITY INITIATIVES

GOOD TO KNOW

- Review the Crossref code of conduct: **crossref.org/code-of-conduct**
- Join the discussion on Mastodon and X: **#Crossref2023**
- Please use the Q&A box for your questions
- The slides and recordings will be shared afterwards

FLASH TALKS

- Kristina Vrouwenvelder, AGU
- Engjellushe Zenelaj, Reald University College
- Edilson Damasio, Maringá State University / Crossref Ambassador
- Joann Fogleson, American Society of Civil Engineers
- Amanda French - New ROR / Funder overlap tool

FLASH TALKS

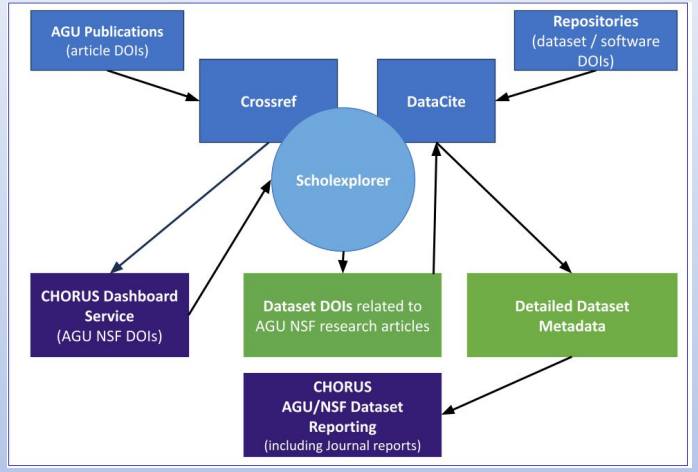
- Kristina Vrouwenvelder, AGU

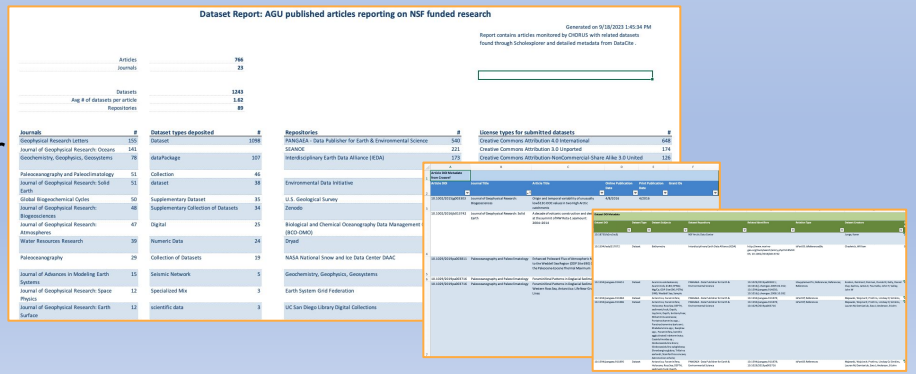
Enhancing Research Connections through Metadata: A Case Study with AGU and CHORUS

by *Tara Packer (CHORUS), Sara Girard (CHORUS), Shelley Stall (AGU), Kristina Vrouwenvelder (AGU)*

Through the use of open APIs CHORUS and AGU were able to discover and facilitate linkages between papers and related grants and datasets.

- **Methods:** We utilized ScholeXplorer, DataCite, and Crossref as the primary sources for identifying and capturing datasets and software linked to papers and grants.
- **Deliverables:** CHORUS reports identified linked articles and associated metadata. AGU provided journal level reporting on data citations.
- **Results:** 91.73% increase in the number of datasets identified for AGU published content reporting on funded research, including NSF, since the project kicked off September 2020.
- **Conclusions:** Without proper linkages between papers and related grants and datasets, credit for dataset generation can't be achieved.





This work was supported by the National Science Foundation (Grant ID: 2025364).

FLASH TALKS

- Engjellushe Zenelaj, Reald University College

Crossref annual meeting and board election October 31, 2023

INDEX CROSS REF, INTEGRITY, PROFESSIONAL AND INSTITUTIONAL DEVELOPMENT

PhD. Engjellushe Zenelaj
Reald University College,
Chief Editor of "Buletini Shkencor Reald"Albania

Our Profile

Allow me to briefly describe the Cross Ref experience, which for a long time seemed impossible to me, but we have now resolved it. We are a small institution, a university college and moreover from a small country like Albania, and therefore our scientific publications are limited in number. However, this does not mean that we should not walk alongside new developments.

Kolegji Universitar REALD
Adresa: Rruga "Zahir Pajaziti", Vlorë
Telefon: (+355) 6820-32298
E-**mail**: universitetireald@yahoo.com
Web: www.unireald.edu.al

Our Case scientific journal
Buletini Shkencor Reald
ISSN : 2411-5592

The index in cross Ref has been an institutional objective which has already been achieved and fulfilled. Collaboration and indexing has brought several benefits both at the institutional level and at the individual level for the academic staff.

Results

Cross Ref indexing has made it possible for published works to be protected, safer, and more visible to other researchers.
Also, this is very important for the progress of our scientific journal, as well as for its growth and internationalization.

Where we are now, and where we want to be

We are at Copernicus:
https://journals.indexcopernicus.com/search/details?id=125201
We want to be at DOAJ
And we are working for it...

Increased the standards, integrity

Our journal is indexed at Copernicus

Has been registered at Web of Sciences, is undervaluation

Has been increased the interest of authors for publication

FLASH TALKS

- Edilson Damasio, Maringá State University / Crossref Ambassador

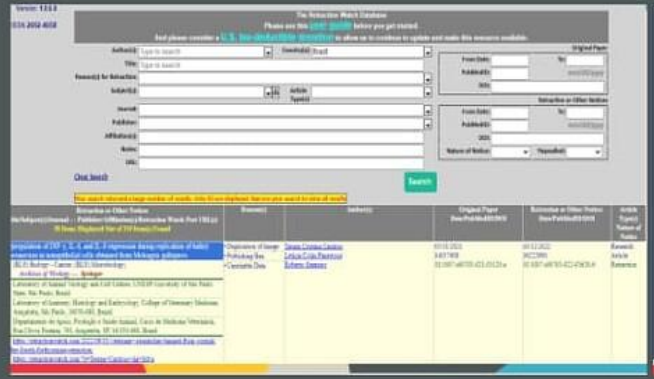
Brazilian retractions in the Retraction Watch Database-RWDB

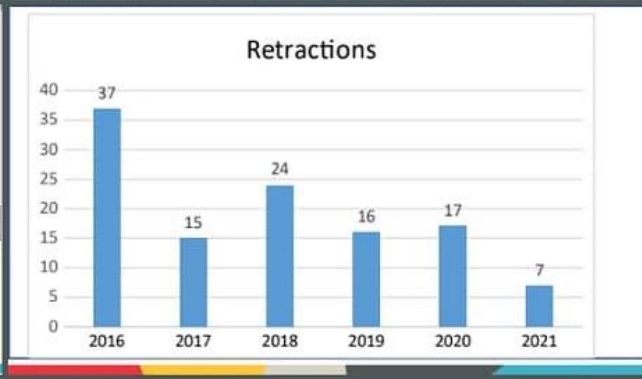
EDILSON DAMASIO, Ph.D. / Maringá, Paraná, Brazil / UEM/Crossref Ambassador

Presented: Crossref Annual Meeting 2023
Formerly presented WCRI2022

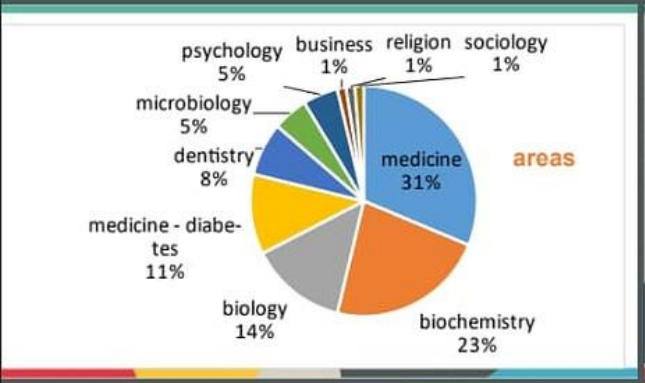
edamasio@uem.br

- RWDB – platform acquired by Crossref, information all retractions 47k registers
- Methods: Search Oct. 2021 Brazil / Retraction (2016-2021) – 116 articles Brazilian authors (coauthors).
- Results: The main publications area is Medicine, Biochemistry, Biology, Medicine-Diabetes, Dentistry, Microbiology, Psychology, Religion, and others.





A number of 276 reasons distributed at the top 5. 'Duplication of Image', 'Investigation by Journal/Publisher', 'Concerns/Issues About Data', 'Duplication of Article', 'Duplicate Publication through Error by Journal/Publisher', 'Investigation by Company/Institution'.



Conclusion: The highest number of retractions by Brazilian authors are related areas of Medicine and Biology, followed by Humanities and Social with a reduced number. The reasons was Duplication (images, articles, and journal error), from Investigation by (journal/publisher, company/institution), followed by Error in (methods, analyses, data, images, results). Fabrication, Falsification and Plagiarism (FFP) and Data issues were low.

FLASH TALKS

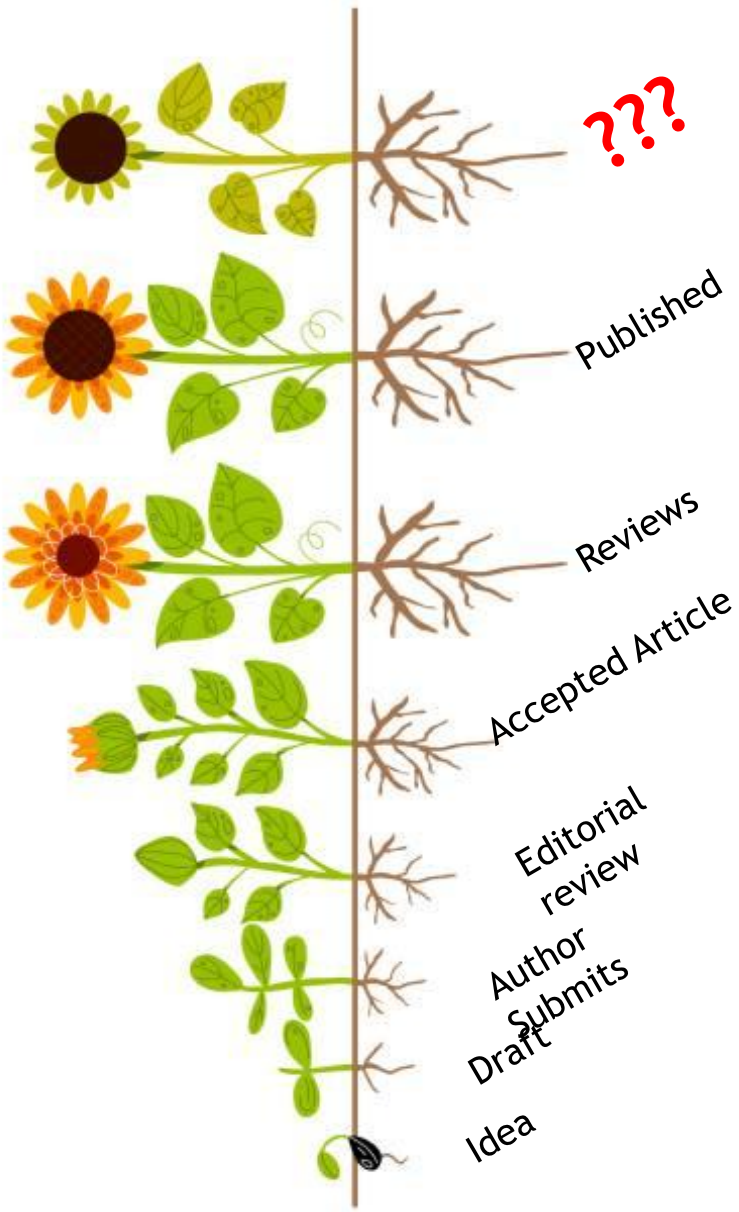
- Joann Fogleson, American Society of Civil Engineers

Now that you've published, what do you do with Metadata?

Joann Fogleson
Director, Publishing Technologies
American Society of Civil Engineers
jfogleson@asce.org

Abstract

Like a flower, metadata serves as a supporting structure or framework for the data. It provides additional context, description, and information about the data it accompanies, much like the petals and leaves of a flower enhance and complement its central part, the bloom. By sharing metadata, different stakeholders can gain a better understanding of the data and its context. This enables efficient data integration, analysis, and decision-making processes. Just as sharing a flower can spread its fragrance and beauty, sharing metadata helps spread knowledge and insights derived from the data. When metadata is shared, it becomes a valuable resource for others to discover and access relevant data. Sharing metadata can foster the discovery of related or interconnected data sets, enabling further exploration and understanding. Data governance and management, sharing metadata promotes transparency and accountability. It allows for tracking the origin, lineage, and usage of data, facilitating compliance, auditability, and data quality assurance. Like sharing a flower, sharing metadata fosters trust and collaboration among individuals and organizations.


???
Published
Reviews
Accepted Article
Editorial review
Author Submits
Draft
Idea

ASCE PUBLISHING

How a publisher pollinates with metadata

- Registering DOIs
- MAI Taxonomy
- Metadata deposits
- Allowing search engine (such as Google Scholar) to crawl site
- MARC record creations
- KBART
- Excel Sheets
- Marketing campaigns and advertising
- Social media
- Review copies
- Book tours
- Press Releases

- Keep metadata current
- Citations
- SEO
- PID (persistent identifier)
- XML
- BITS/JATS/STS
- CRediT taxonomy
- In-house depository
- Platform reporting
- Accessible metadata
- Portico
- CLOCKSS

ASCE PUBLISHING

Search Engine Optimization (SEO) is important for scholarly publication metadata for several reasons:

1. Increased Discoverability
2. Relevance in Academic Databases
3. Citation Impact
4. International Reach
5. Promotion of Open Access
6. Enhanced User Experience
7. Funding and Collaboration Opportunities
8. Tracking and Analytics

SEO for scholarly publication metadata helps by increasing visibility, citations, and the impact of research.

The Dublin Core™ Metadata Initiative, or "DCMI",

Dublin Core is an international metadata standard that consists of 15 terms for describing digital or physical resources.
These terms include creator, title, date, subject, and publisher.
Dublin Core is used to describe a variety of digital materials, such as video, sound, image, text, and web pages.
It is one of the most widely used metadata standards.
The Dublin Core Metadata Initiative (DCMI) is responsible for formulating Dublin Core.
The first Dublin Core properties were defined in 1995 at the Metadata Workshop in Dublin, Ohio.
Dublin Core is defined by ISO in 2003 ISO Standard 15836, and NISO Standard Z39. 85-2007.
Dublin Core is a basic, domain-agnostic standard that can be easily understood and implemented. It is used to expand cataloging information and improve document indexing for search engine programs

https://www.dublincore.org/specifications/dublin-core/dces/

PID

A persistent identifier (PID) is a long-lasting reference to a digital object, such as a document, file, web page, or other digital object.

Most PIDs have a unique identifier that's linked to the current address of the metadata or content.

PIDs can eliminate name ambiguity and point persistently to the location of a digital object.

Examples of PIDs:

International Standard Serial Number (ISSN) is among the most well-known PIDs, ISSNs are unique identifiers for serial publications, including scholarly journals and magazines, managed by The International Centre for the registration of serial publications (CIEPS).

DOI (Digital Object Identifier) is a persistent identifier that's used to locate specific digital objects, often a journal article.

Permalinks are URLs that are intended to remain the same, limiting the amount of URL changes that can render objects unfindable. These links are often short and easy for people to type. These URLs need to be actively maintained to continue to be persistent. See the links below for more information about each service.

ORCID provides a persistent digital identifier for researchers that distinguishes you from every other researcher and supports automated linkages between you and your professional activities ensuring that your work is recognized.

GrantID is an identity management solution that adds security to apps with single sign on, multiple authentication factors, and analytics. It's fully compliant with the OAuth 2.0 and OpenId connect specifications.

A **funder ID** is an identifier for an organization that funds research in the Crossref registry. FundRef, facilitated by CrossRef, is a collaborative project of publishers and funding agencies that supports a way of reporting funding for research.

Examples of PIDs continued:

ROR "Research Organization Registry“ is a global, community-led registry of open persistent identifiers for research organizations. Crossref and ROR are working together to make it easier for members to integrate identifiers, register metadata, and connect research outputs to funders.

A Ringgold Identifier (Ringgold ID or RIN) is a unique numeric identifier for organizations in the publishing industry supply chain. It's a persistent identifier (PID) applied to organizations in the scholarly communications sector National Library of Medicine’s Medical Subject Headings (MeSH), is a controlled vocabulary thesaurus created and updated by the United States National Library of Medicine (NLM) Ringgold is a subsidiary of Copyright Clearance Center (CCC)

DataCite is a global, non-profit organization that provides digital object identifiers (DOIs) for research data and other research outputs. DataCite's mission is to make data and scholarly content more accessible and citable. DataCite was founded in 2009 to make research data citable in the literature using DOIs

ASCE PUBLISHING

List of academic databases and search engines

Name	Discipline	Description	Access cost	Provider
ERIC: Educational Resource Information Center	Education	Education literature and res	Free & Subscription	United States Department of Education (available by subscription from OCLC, CSA)
Book Review Index Online	Book reviews	Reviews of periodicals and	Subscription	Thomson Gale
Books in Print	Books	Reviews covering over 2.5 r	Subscription	R. R. Bowker
Crossref[28]	Multidisciplinary	An official Digital Object Id	Free	Crossref
DeepDyve	Multidisciplinary	Commercial website that se	Free & Subscription	DeepDyve
Dimensions[29]	Multidisciplinary	Publications, books and boc	Free & Subscription	Digital Science & Research Solutions Ltd
Directory of Open Access Journals (DOAJ)[30]	Multidisciplinary	Articles from 18,652 open a	Free	Infrastructure Services for Open Access (IS4OA)
Google Scholar[1]	Multidisciplinary	The biggest academic datal	Free	Google
PubMed[42]	Biomedical, life sciences	A database primarily of refe	Free	NIH, NLM
ScienceOpen	Multidisciplinary	Natural and physical scienc	Free	ScienceOpen Inc.
Scopus[43]	Multidisciplinary	Records from over 20,500 ti	Subscription	Elsevier
Web of Science[43]	Multidisciplinary	Includes other products, su	Subscription	Clarivate Analytics
ASCE Library	Civil Engineering	All civil engineering discipli	Free & Subscription	ASCE
Civil engineering database	Civil engineering	A bibliographic database co	Free	American Society of Civil Engineers
ORCID	Multidisciplinary	An open and independent re	Free	ORCID Inc.
Publons[59]	Multidisciplinary	Service for academics to tra	Free	Clarivate Analytics
WorldCat[62]	Multidisciplinary	Unified catalog of member	Free & Subscription	OCLC Inc.
IEEE Xplore	Computer Science, Engineering, Electronics	Over 5 million records.	Subscription	IEEE
IngentaConnect	Multidisciplinary	Covers articles from 13,000	Free & Subscription	Ingenta

https://en.wikipedia.org/wiki/List_of_academic_databases_and_search_engines

ASCE PUBLISHING

Persistent archive

Portico or CLOCKSS, both of which are dark archives meaning the content submitted to them will only release in the case of a “trigger event,” such as confirmation that a journal is no longer in publication. Archiving will ensure your journal content remains available in perpetuity, even if you have to cease publishing, and it enables Crossref to work with archives to ensure your DOIs continue to resolve to your content,

Metadata Management Plan

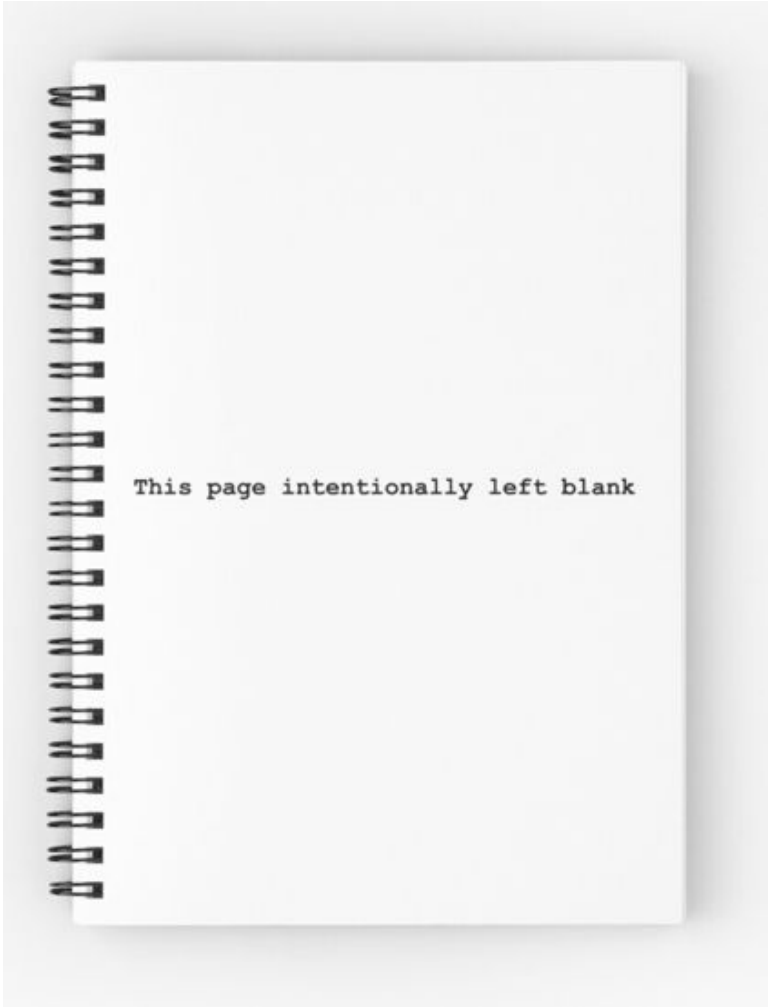
- Verify PIDs when possible
- Data inventory
- Data enrichment
- Data lineage (a historical record of the data and its origins)
- Collaborative workflows
- Metadata exchange with third-party tools
- Security and privacy
- GDPR (General Data Protection Regulation)

Accessible metadata

Accessible metadata helps users understand how to represent machine-readable metadata in a user-friendly User Interface / User Experience (UI/UX).

How do we create
- editorial process
- AI

https://www.w3.org/2021/09/UX-Guide-metadata-1.0/principles/
https://handbook.floeproject.org/techniques/accessibility-metadata/



Alt Text

How would you describe this object and its context to someone who is blind or low vision?
- The subject(s) in detail
- The setting
- The actions or interactions
- Other relevant information

(1-2 detailed sentences recommended)

A spiral bound notebook with black text

Description automatically generated

☐ Approve alt text ⓘ
☐ Mark as decorative ⓘ

ASCE PUBLISHING

Interesting reads:

Common Scholarly Communication Infrastructure Landscape Review
Oya Y. Rieger, Roger C. Schonfeld
DOI: https://doi.org/10.18665/sr.318775

Metadata 2020 is a global collaboration that advocates for richer, reusable, and open metadata for all research outputs. The goal of Metadata 2020 is to improve access to scholarly pursuits for the benefit of society. The program is organized by CrossRef in partnership with ORCIhttps://metadata2020.org/

Why PID Strategies Are Having A Moment — And Why You Should Care By ALICE MEADOWS
https://scholarlykitchen.sspnet.org/2023/01/25/why-pid-strategies-are-having-a-moment-and-why-you-should-care/

There's A PID For That By Frank Manista
https://scholarlycommunications.jiscinvolve.org/wp/2020/10/12/theres-a-pid-for-that-part-1-grants/

State of Metadata. Copyright.com
https://www.copyright.com/stateofmetadata/map.php

Lettie Y. Conrad, PhD, & Michelle Urberg, PhD. (2023). With or Without: Measuring Impacts of Books Metadata. Zenodo. https://doi.org/10.5281/zenodo.8145260

Managing researcher identity and name changes using ORCID
https://ukorcidsupport.jisc.ac.uk/2022/01/managing-researcher-identity-and-name-changes-using-orcid-uk-orcid-jisc-consortium-event-report

JATS4R is a NISO Working Group https://jats4r.org/

NISO Standards: https://www.niso.org/standards-committees

Joann Fogleson
Jfoglson@asce.org
Director, Publishing Technologies
American Society of Civil Engineers
703-295-6112

FLASH TALKS

- Amanda French - New ROR / Funder overlap tool

ROR / Open Funder Registry Overlap

Amanda French
Technical Community Manager, ROR
amanda@ror.org

Crossref Live Annual
October 31, 2023

The Open Funder Registry and ROR are merging!

Blog

Home > Blog > Open Funder Registry to transition into Research Organization Registry (ROR)

9 minute read.

Open Funder Registry to transition into Research Organization Registry (ROR)

Amanda French, Ginny Hendricks, Rachael Lammey, Fabienne Michaud, Maria Gould – 2023 September 07
In Open Funder Registry, ROR, Identifiers, Metadata, Research Funders

Today, we are announcing a long-term plan to deprecate the Open Funder Registry. For some time, we have understood that there is significant overlap between the Funder Registry and the Research Organization Registry (ROR), and funders and publishers have been asking us whether they should use Funder IDs or ROR IDs to identify funders. It has therefore become clear that **merging the two registries will make workflows more efficient and less confusing for all concerned.**

https://www.crossref.org/blog/open-funder-registry-to-transition-into-research-organization-registry-ror/

ROR

https://ror.org/02e463172 ← ROR ID

American Cancer Society

ORGANIZATION TYPE

Nonprofit

OTHER NAMES

American Society for the Control of Cancer, ACS, ASCC

WEBSITE

http://www.cancer.org/

Funder ID →

LOCATION

Atlanta (GeoNames ID 4180439)

United States

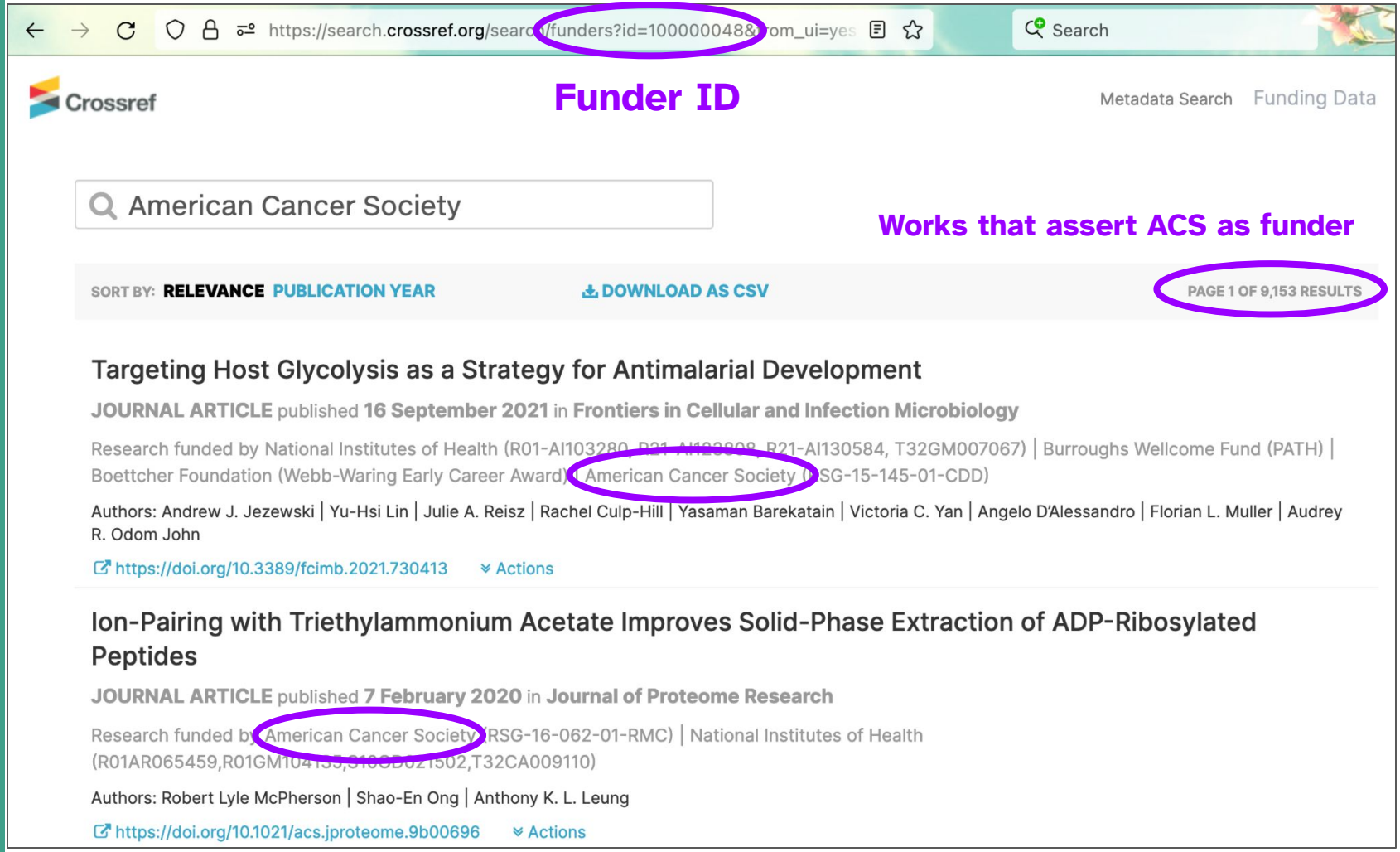
OTHER IDENTIFIERS

GRID grid.422418.9

ISNI 0000 0004 0371 6485

Crossref Funder ID 100000048

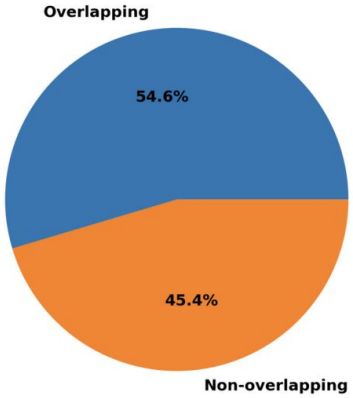
Wikidata Q463665


https://search.crossref.org/search/funders?id=100000048&
Search
Crossref
Funder ID
Metadata Search
Funding Data
American Cancer Society
Works that assert ACS as funder
SORT BY: RELEVANCE PUBLICATION YEAR
DOWNLOAD AS CSV
PAGE 1 OF 9,153 RESULTS
Targeting Host Glycolysis as a Strategy for Antimalarial Development
JOURNAL ARTICLE published 16 September 2021 in Frontiers in Cellular and Infection Microbiology
Research funded by National Institutes of Health (R01-AI103280, R21-AI130584, T32GM007067) | Burroughs Wellcome Fund (PATH) | Boettcher Foundation (Webb-Waring Early Career Award) | American Cancer Society (RSG-15-145-01-CDD)
Authors: Andrew J. Jezewski | Yu-Hsi Lin | Julie A. Reisz | Rachel Culp-Hill | Yasaman Barekatain | Victoria C. Yan | Angelo D'Alessandro | Florian L. Muller | Audrey R. Odom John
https://doi.org/10.3389/fcimb.2021.730413
Actions
Ion-Pairing with Triethylammonium Acetate Improves Solid-Phase Extraction of ADP-Ribosylated Peptides
JOURNAL ARTICLE published 7 February 2020 in Journal of Proteome Research
Research funded by American Cancer Society (RSG-16-062-01-RMC) | National Institutes of Health (R01AR065459,R01GM104135,S10OD021502,T32CA009110)
Authors: Robert Lyle McPherson | Shao-En Ong | Anthony K. L. Leung
https://doi.org/10.1021/acs.jproteome.9b00696
Actions

Crossref - Aggregrate ROR/Funder Registry Overlap

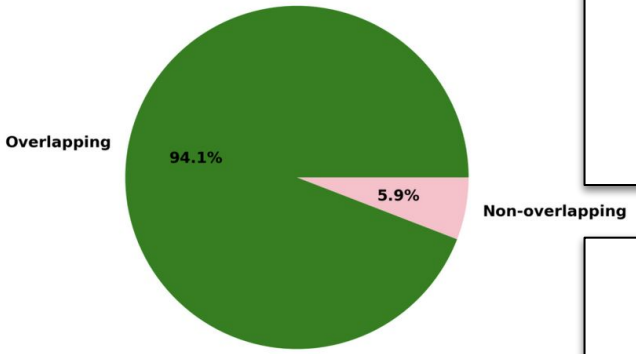
Overlapping vs Non-overlapping Funder IDs[1]

19,338 / 35,414 total funders



Overlapping vs Non-overlapping Assertions[2]

12,688,389 / 13,479,466 total assertions



Crossref Overlap Analysis

1. Total number of Funder IDs that have been mapped to ROR IDs.
2. Total number of assertions where the Funder ID is mapped to a ROR ID.

Download unmapped funders as CSV

Download mapped funders as CSV

ROR has been working to reconcile the two registries since mid-2022.

There is a corresponding ROR ID for **over 94%** of Funder ID assertions in Crossref DOI records.

Crossref Member - ROR/Funder Registry Overlap

rorfunderregistryoverlap.streamlit.app

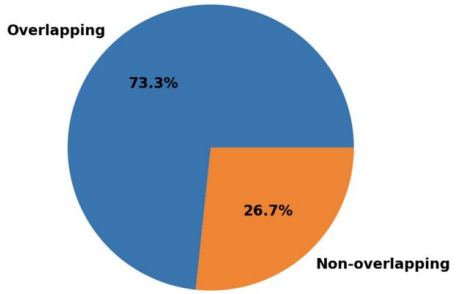
Enter Member Name:

Oxford University Press (OUP)

Show overlap

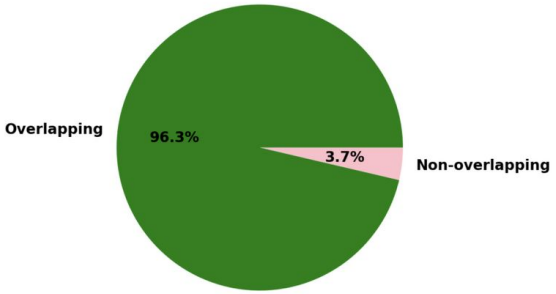
Overlapping vs Non-overlapping Funder IDs[1]

9,874 / 13,467 total funders



Overlapping vs Non-overlapping Assertions[2]

347,822 / 361,027 total assertions



1. Number of Funder IDs used in member assertions that have been mapped to ROR IDs.
2. Number of assertions by member where the Funder ID is mapped to a ROR ID

Download unmapped funders as CSV

Download mapped funders as CSV

ROR has built a tool to compare the overlap in the two registries.

You can use the tool to look up the funding assertion overlap of Crossref members such as OUP.

Funder Mapping Lookup

Enter Funder name:

Australian Research Council

Search

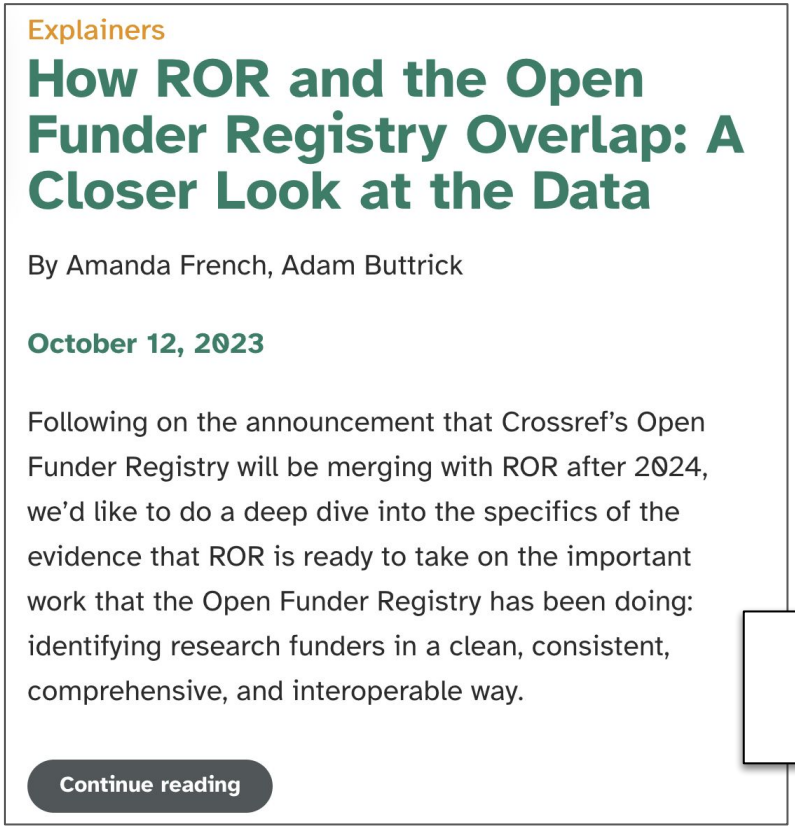
Funder ID	Funder Name	ROR ID	ROR Name
http://dx.doi.org/10.13039/501100000923	Australian Research Council	https://ror.org/05mmh0f86	Australian Research Council

Request correction?

You can also use the tool to look up individual funders and find both the Crossref Funder ID and the ROR ID.

rorfunderregistryoverlap.streamlit.app

ROR is ready!



Explainers

How ROR and the Open Funder Registry Overlap: A Closer Look at the Data

By Amanda French, Adam Buttrick

October 12, 2023

Following on the announcement that Crossref's Open Funder Registry will be merging with ROR after 2024, we'd like to do a deep dive into the specifics of the evidence that ROR is ready to take on the important work that the Open Funder Registry has been doing: identifying research funders in a clean, consistent, comprehensive, and interoperable way.

Continue reading

It's never been more important to be able to clearly identify which organizations have funded which research.

ROR is ready to take on the work of identifying research funders.

Read more at

https://ror.org/blog/2023-10-12-ror-funder-registry-overlap/

ROR / Funder Registry Overlap tool
built by
ROR Curation Lead Adam Buttrick

https://rorfunderregistryoverlap.streamlit.app

THANK YOU

crossref.org
community.crossref.org
mastodon.online/@crossref
feedback@crossref.org

UNPLUGGED

https://app.spatial.chat/s/crossref2023