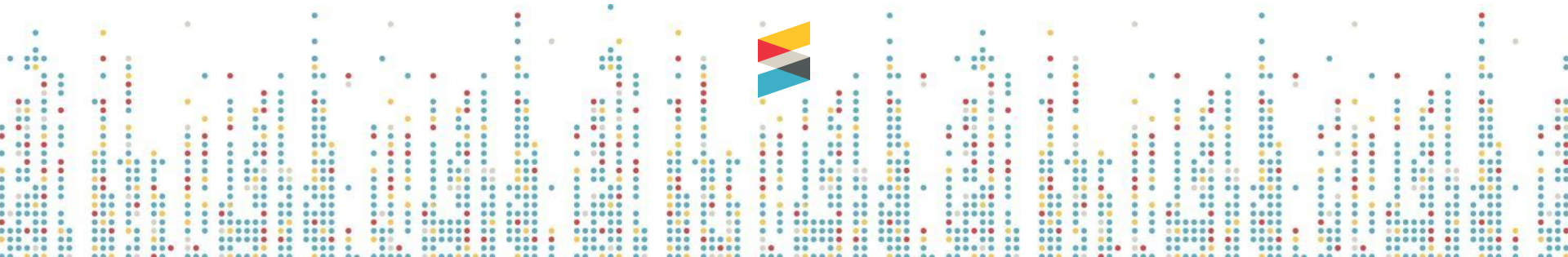
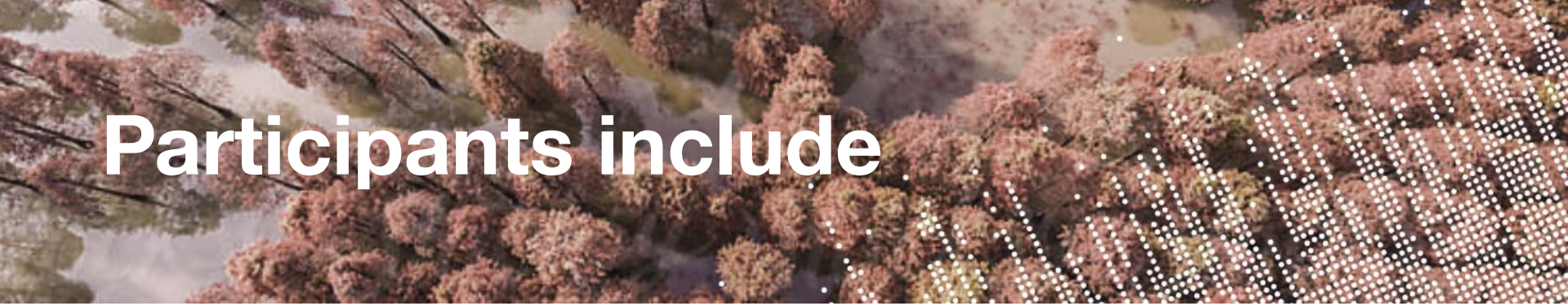
Registering Grants with Crossref: Next steps, workflows & the bigger picture



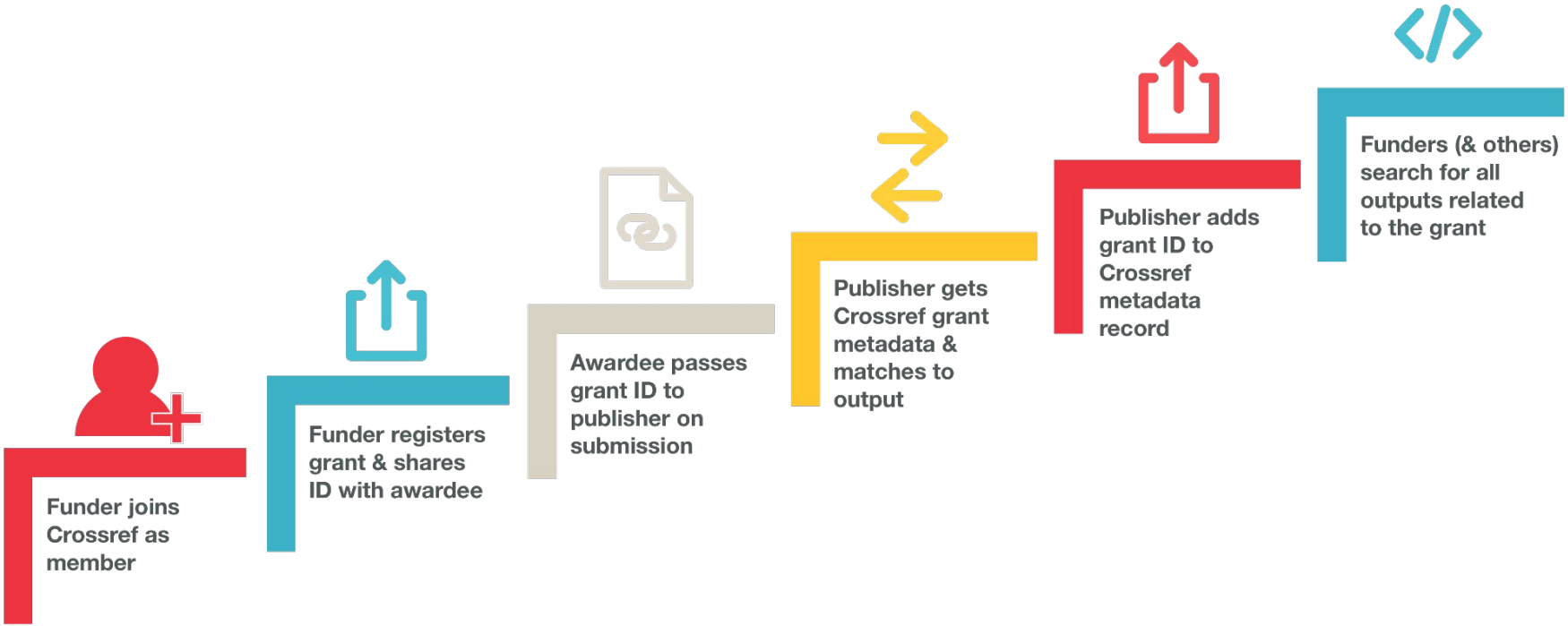


Participants include

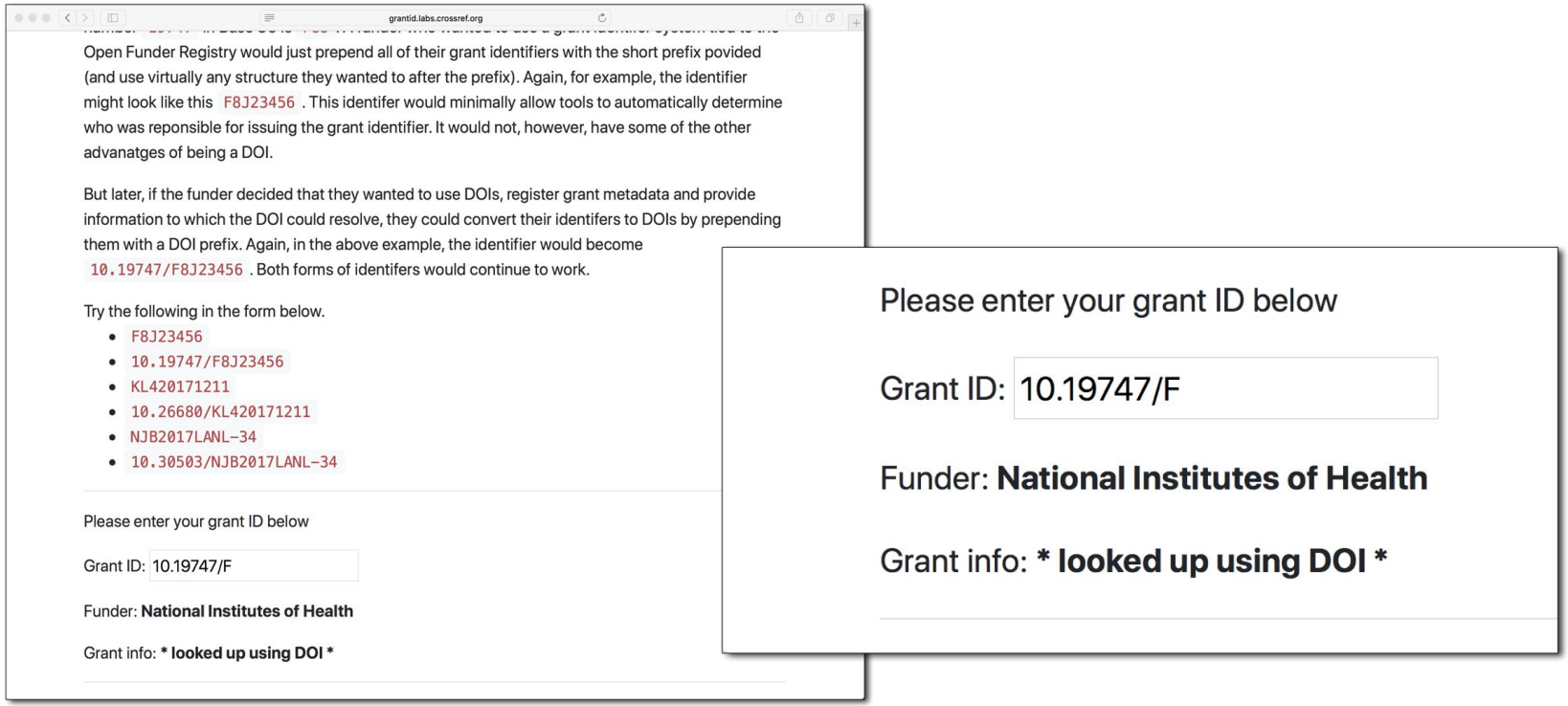
- Wellcome (via EuropePMC)
- Chan Zuckerberg Initiative (CZI)
- James S. McDonnell Foundation
- Gordon and Betty Moore Foundation
- Australian Research Data Commons
- OSTI/DOE
- Simons Foundation
- Swiss National Science Foundation
- Wiener Wissenschafts-, Forschungs- und Technologiefonds (WWTF)/Vienna Science and Technology Fund
- Japan Science & Technology Agency
- European Research Council
- Science Foundation Ireland
- Human Frontier Science Program (HFSP)
- International Anesthesia Research Society
- Melanoma Research Alliance
- Children's Tumor Foundation
- Tuberous Sclerosis Alliance
- Danmarks Frie Forskningsfond
- The ALS Association
- The European Commission
- American Cancer Society
- FCT Portugal
- Cure PSP

Grants registered

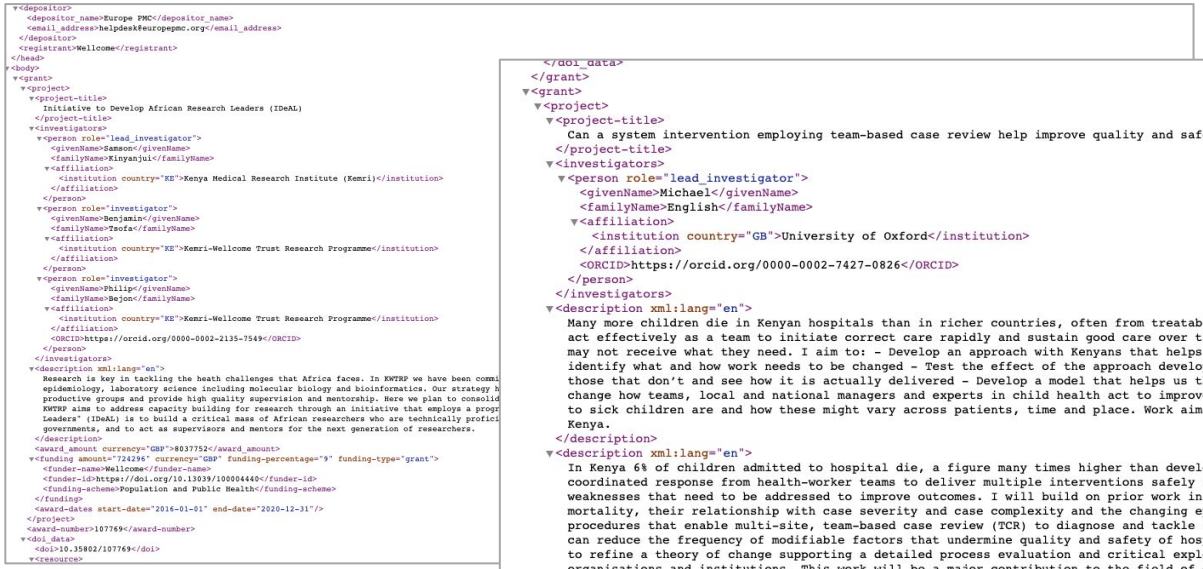
PREFIX	PUBLISHER	COUNT
10.53041	CurePSP, Inc.	2
10.37717	James S. McDonnell Foundation	444
10.48050	Melanoma Research Alliance	392
10.37807	Gordon and Betty Moore Foundation	85
10.46936	US Department of Energy	25
10.51761	Tuberous Sclerosis Alliance	3
10.46714	Simons Foundation	6
10.52546	The ALS Association	414
10.48105	Children's Tumor Foundation	620
10.51718	International Anesthesia Research Society	34
10.47486	Australian Research Data Commons (ARDC)	57
10.35802	Wellcome	16411
10.53354	American Cancer Society	2


Funder joins Crossref as member
Funder registers grant & shares ID with awardee
Awardee passes grant ID to publisher on submission
Publisher gets Crossref grant metadata & matches to output
Publisher adds grant ID to Crossref metadata record
Funders (& others) search for all outputs related to the grant

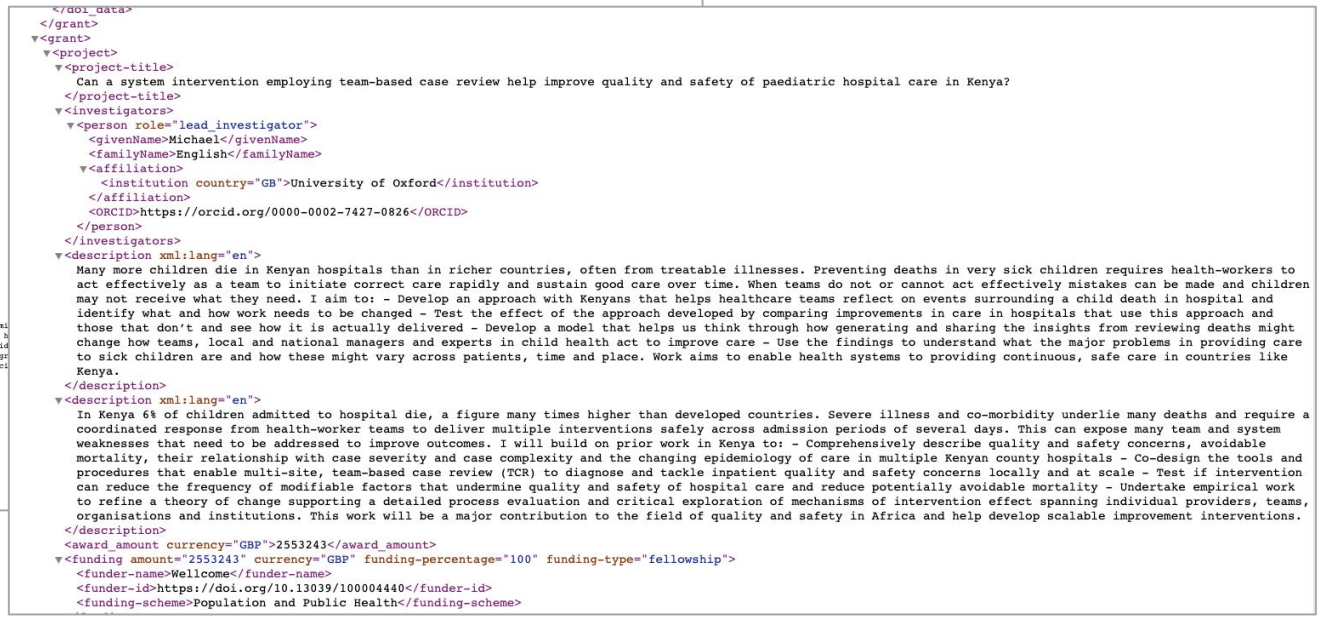
The full Grant ID enables external systems e.g. manuscript submission systems and grant tracking systems to pull accurate, funder-provided information on the grant from the Crossref metadata, reducing manual data entry.



The first registered grants



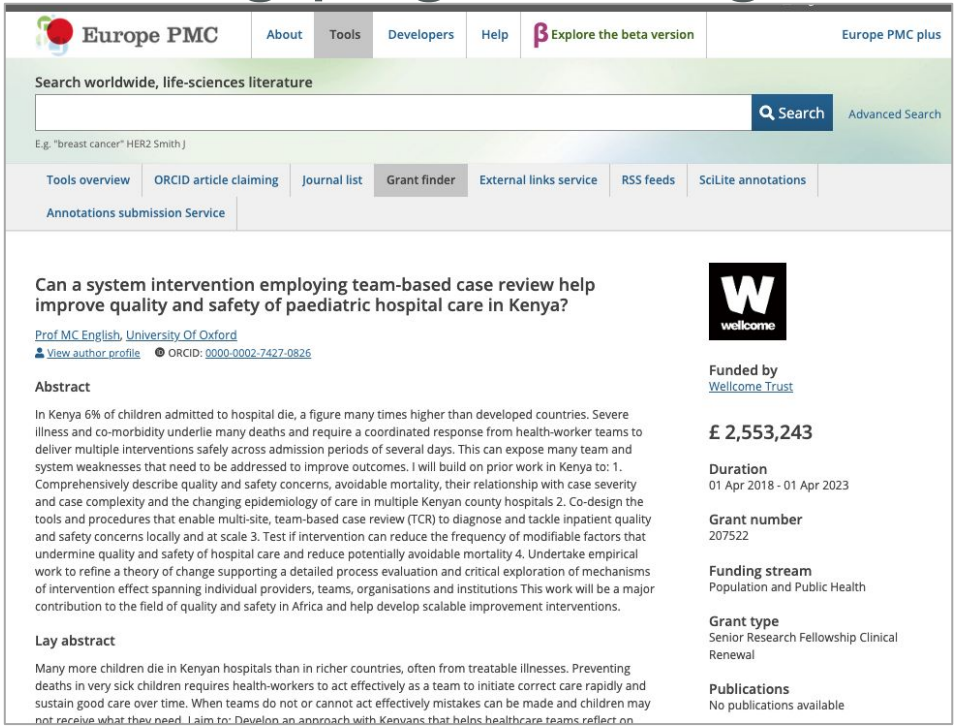
https://doi.org/10.35802/107769



https://doi.org/10.35802/207522

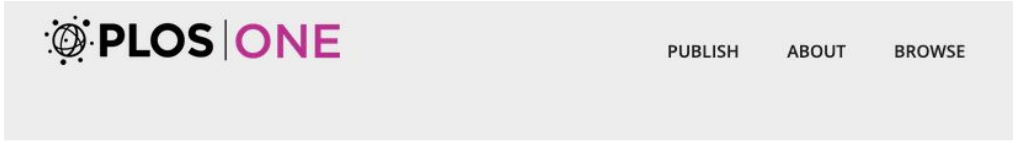
Wellcome grants in Crossref

Landing page for a grant ID



The DOIs resolve to a landing page that contains information about the grant (Wellcome's are hosted by EuroPMC who also deposit the grant metadata with Crossref for them).

And in publications



OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Evaluating the foundations that help av resistance: Performance of essential wa hygiene functions in hospitals and requi in Kenya

Michuki Maina, Olga Tosas-Auguet, Jacob McKnight, Mathias Zosi, Grace Kimemia, Mike English

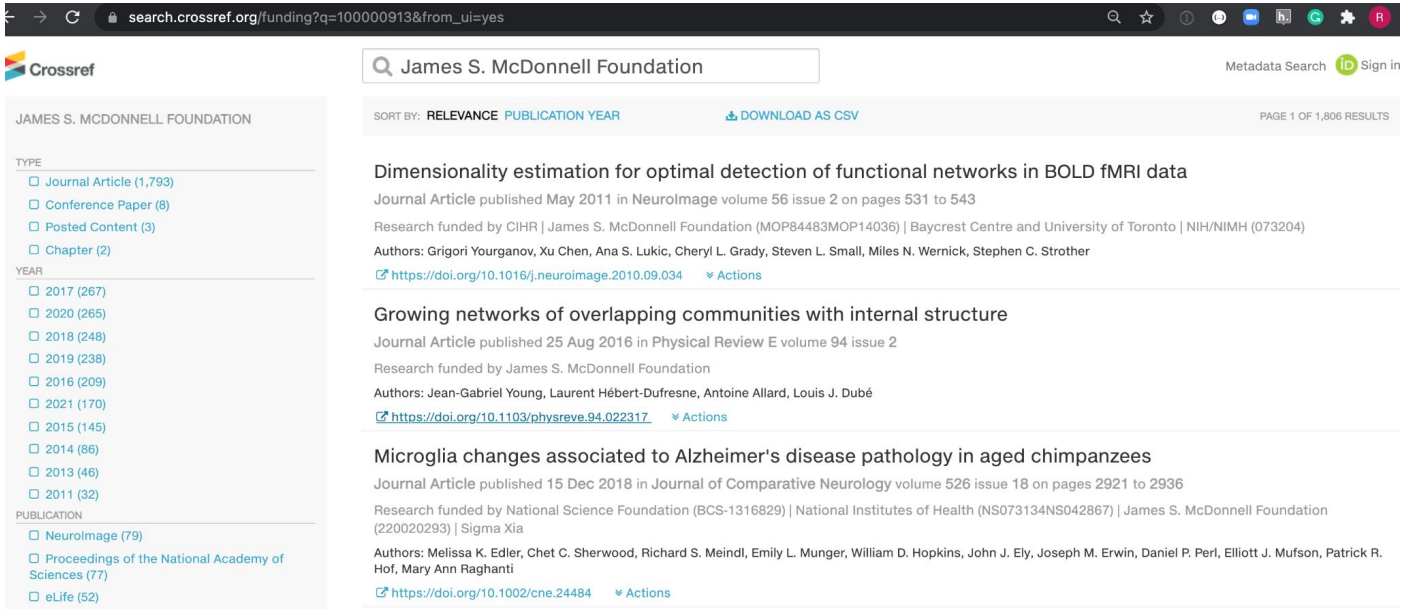
Published: October 9, 2019 • https://doi.org/10.1371/journal.pone.0222922

Funding: MM, GK, JM, MZ and OT were supported by funds through a grant from the Economic and Social Research Council ESRCS (ES/P004938/1) awarded to ME. A Senior Research Fellowship awarded to ME by The Wellcome Trust (#207522, https://doi.org/10.35802/207522) supported PM. MM received additional support from a grant to the Initiative to Develop African Research Leaders (IDeAL) through the DELTAS Africa Initiative (DEL-15-003), an independent funding scheme of the African Academy of Sciences (AAS)'s Alliance for Accelerating Excellence in Science in Africa (AESA) and supported by the New Partnership for Africa's Development Planning and Coordinating Agency (NEPAD Agency) with funding from the Wellcome Trust (#107769, https://doi.org/10.35802/107769) and the UK government.

https://doi.org/10.1371/journal.pone.0222922

The Grant DOIs can also start to be tied to publications. This example from PLOS ONE cites the two Wellcome Grant IDs we just saw. PLOS collected this information from the authors upon submission, and it can then be passed to Crossref in the publisher metadata when the article DOI is registered.

Using the data



Finally, the information is made available by Crossref's APIs. This will allow funders (and anyone else) to search Crossref using the Grant ID and find all the published outputs that Crossref can see associated with that grant, or the funder overall. The results can then be faceted or filtered, or imported into funder systems.

Work in progress

- Availability via Crossref REST API
- Schema 5.0 work to accept grant identifiers in publication metadata (includes support for ROR)
- Helper tool(s) to simplify content registration
- Additions to grants schema
- Governance

Work in progress

- Growing corpus of registered grants
- Awareness across:
  - Funders
  - Metadata users
  - Research institutions
  - Publishers & service providers

Linking with ORCID & DataCite

The big picture...

...is bigger than this...

The big picture

- **Linking grants to *all* outputs** related to a grant e.g. data, software, preprints, policy papers, reports *without manual reporting* (and being able to see the license information related to that content)
  - In future, potential for compliance-checking on publication/data-sharing policies
- **Auto-update workflow to ORCID** can automatically populate ORCID records to give a more-comprehensive picture of their research without them having to do it
  - Auto-suggest for manuscript submission systems, data repositories etc. saves time and manual data-entry
- **Multiple ways of looking at research outputs** related to grants
- **Open, transparent grant information** across research support via one central source

Feedback

Feedback and questions welcome!

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