

## ■ Why CrossRef

CrossRef creates services for the scholarly community that require technical and business collaboration among organizations that cannot be done more efficiently by a single entity. The infrastructure already in place for reference linking allows a large number of publishers to add standard funding data with a minimum of new overhead and investment.



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FundRef is a funder identification service from CrossRef resulting from collaboration between scholarly publishers and funding agencies. FundRef provides a standard way of reporting funding sources for published scholarly research.

## ■ Why Is FundRef Necessary?

Government and other research funders are accountable to report the research and development outcomes they support. One measure of this output is the publications that result from specific grants, but funders do not currently have an easy or standard way to measure or track them. A combined solution for all funders eliminates the need for each to architect its own solution to the problem.

Journals and other publications include author acknowledgements for the source of their funding, but these statements vary widely in location, terminology, and placement from journal to journal and publisher to publisher. These variations make mining publication data to track funding sources difficult. Until now, standard bibliographic metadata for scholarly publications has not included funding source information.

## ■ How Does FundRef Work?

FundRef enables CrossRef member publishers to create, submit, and display standard funder names and grant numbers. The FundRef Registry, donated by Elsevier, includes a standardized taxonomy of 4,000 funding agencies. Major manuscript tracking system vendors incorporate this controlled vocabulary into the publication submission processes. Authors choose a funder from the list and enter the grant number upon submission. Funding data is sent with other metadata to CrossRef.

Funders can retrieve funding data through FundRef Search, a free query service, or through CrossRef's other query and data distribution interfaces. They search for funder name and retrieve lists of CrossRef DOIs and bibliographic metadata for documents. They can display CrossRef DOI links to the funded scholarly literature on their public websites.

FundRef also enables publishers to display funding data through the CrossMark service. This standardization makes it easier for readers to discover who funded the research, regardless of where it was published.

## ■ Who Does FundRef Benefit?

- Funding organizations, which will be able to better track the results of their funding policies
- Authors, in simplifying their submission process
- Research institutions, which will be able to track the productivity of their employees
- Publishers, which will be able to analyze the sources of funding for their published content, and
- Readers and the public, by providing greater transparency into the results of R&D funding.

For more information visit [www.crossref.org/fundref](http://www.crossref.org/fundref) or email [fundref@crossref.org](mailto:fundref@crossref.org).