

Understanding the ORCID API and Integrations

| March 13, 2018



Connecting Research
and Researchers

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ORCID ENABLES



Organizations use the ORCID API to authenticate, collect, display, and connect persistent identifiers for people, places, and things in research workflows



ORCID REGISTRY CONNECTIONS

Two models:

1. Connect using a vendor system
 - Manuscript submission/publication
 - CRIS
 - Profile/HR systems
 - Document/data repositories
 - Funding systems
2. Develop a custom connection

VENDOR CONNECTIONS

Publishing

- Editorial Manager
- Open Journal Systems
- ScholarOne Manuscripts
- eJournalPress

CRIS Systems

- Converis
- Elements
- IRMA
- Pure
- DSpace-CRIS
- Vivo

Find more:

<https://members.orcid.org/orcid-enabled-systems>



WHAT CAN YOU DO AND BUILD WITH THE API?

- Authenticate a user's ORCID iD
- Push a person identifier to ORCID
- Add or update affiliation
- Push work metadata or other activity to the API
- Insights into researcher impact

COLLECT



COLLECT *validated* ORCID iDs for individuals

- Explain what ORCID is
- Explain why you're collecting iDs
- Consistent user experience
- Authenticated connections

Ensure individuals are correctly connected with your institution

Many vendor systems use the OAuth validation process

DISPLAY



DISPLAY iDs on your website, platform, systems

- iDs shown as a link
- iDs in metadata
- Use the ORCID Member logo
- Explain why iDs are collected

Signal to your researchers and the wider community that your systems are plumbed to support ORCID iDs

<https://orcid.org/trademark-and-id-display-guidelines>



CONNECT



CONNECT your data to ORCID records

- Request permission to write to records
- Store long-lived tokens
- Add data that you uniquely can assert
- Explain the connection

Enable researchers to provide validated data to other systems they use

<https://orcid.org/blog/2015/10/26/auto-update-has-arrived-orcid-records-move-next-level>

Open Science Policies

ORCID and FUNDERS

The value of identifiers to funding organizations is clear: funders gather a lot of information about research activities, and identifiers can streamline the process of gathering that information, and help to make it more accurate.

Funders use ORCID iDs to make funding applications and outcome reporting easier, to improve the reusability of the information they collect, to ensure the accurate citation of an award (by pushing award information into ORCID records), and to recognize the contributions of reviewers.



POLICIES

Many funders globally issued a policy or statement relating to the use of ORCID iDs

RECOMMENDATION #8:

The European research system and Open Science Cloud should adopt ORCID as its preferred system of unique identifiers, and an ORCID iD should be mandatory for all applicants and participants in FP9. Unique identifiers for individuals and research works will gradually improve the robustness of metrics and reduce administrative burden. ORCID provides researchers with a unique ID and associates this ID with a regularly updated list of publications. It is already backed by a growing number of funders across Europe (<http://about.orcid.org/>). The EC and ERC should utilise ORCID IDs for grant applications, management and reporting platforms, and the benefits of ORCID need to be better communicated to researchers and other stakeholders (Galsworthy & McKee, 2013).



See: <https://orcid.org/content/funders-orcid-policies>

BEST PRACTICE

1. **Collect.** Collect authenticated ORCID iDs for your applicants (i.e., iDs obtained via the ORCID API) and long-lasting permissions to read, write, and update their record. Do not ask researchers to type in or search for their iD.
2. **Display.** Embed your awardees' ORCID iDs into grant data, and display the ORCID iD icon next to the name of each researcher who has connected their iD.
3. **Auto-populate.** Request and use permission from awardees to pull information from their ORCID record to auto-populate application forms.
4. **Connect.** Update researcher' ORCID records with information about their grants and awards. Your organization is displayed as the source of this information.
5. **Synchronize.** You exchange information to AND from ORCID records and your system, so that the two are fully synchronized.
6. **Take your integration further.** You use ORCID to recognize your awardees' peer review service.



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Funders wield the power to improve the value and openness of research information.

Unique researcher identifiers have the potential to bring efficiency and transparency to the creation and re-use of that information.