

ROR is a community-led project to develop an open, sustainable, usable, and unique identifier for every research organization in the world. The ROR MVR (minimum viable registry) launched in January 2019 and currently has more than 91,000 research organizations, all with unique ROR IDs.

The scope of ROR is the *affiliation use case*—to unambiguously identify which organizations are affiliated with which research outputs.

The MVR started with seed data from the GRID database. The project team is developing policies and procedures for curating records going forward.

ROR Steering Organizations



ROR record (https://ror.org/03yrm5c26)

ROR ID

- URL that resolves to the organization's record
- Opaque string with leading 0, six characters, and a checksum

Organization name, alternate names, acronyms

- Supports multiple languages, abbreviations

Mapping to other identifiers

- ROR IDs map to other IDs for the organization, if available

Additional metadata

- Other fields to come (e.g., city/state, related records, etc).

Affiliation lookup

When affiliations are collected in submission systems and other platforms, the affiliation string can be matched to a ROR ID with an API call.

Dryad's data submission system (left) and DataCite's DOI registration system (right) both call the ROR API to return possible affiliation matches in a dropdown list.

ROR Project Milestones



Benefits of ROR IDs:

- Community-governed and open infrastructure
- Crosswalks to other organization IDs (GRID, ISNI, Crossref Funder ID, Wikidata)
- Easy to implement

Use ROR IDs to:

- Track outputs & funding impact
- Link researchers & research outputs with affiliations
- Send affiliations to PubMed, Europe PMC, Crossref, DataCite, etc.

ROR IDs in the institution-id tag: a natural fit for JATS

ROR IDs can easily be implemented in JATS in the existing institution-id tag

```
PMCID 6480435 BMC Public Health
<institution-wrap>
<institution-id institution-id-type="ISNI">0000 0001 2173 7691</institution-id>
<institution-id institution-id-type="GRID">grid.39158.36</institution-id>
<institution-wrap>Graduate School of Medicine,
</institution-wrap>Hokkaido University, </institution-wrap>
<institution-wrap>Kita 15 Jo Nishi 7 Chome, Kita-ku, Sapporo-shi, Hokkaido 060-8638 Japan
</aff><aff id="Aff2"><label>2</label><institution-wrap><institution-id
institution-id-type="ISNI">0000 0004 1754 9200</institution-id><institution-id
institution-id-type="GRID">grid.419082.6</institution-id>
<institution-wrap>CREST, Japan Science and Technology Agency,
</institution-wrap></institution-wrap>
```

```
PMCID 6486150 eLife
<funding-source><institution-wrap><institution-id institution-id-type="FundRef">http://dx.doi.org/10.13039/100000002</institution-id>
<institution-wrap>National Institutes of Health</institution-wrap></funding-source>
```

JATS metadata from *BMC Public Health* showing institution-id tags for ISNI and GRID identifiers. ROR IDs can be added as an additional institution-id tag without removing the other identifiers. ROR already maps to GRID and ISNI so the ROR ID can be looked up from GRID or ISNI with a simple API call.

JATS metadata from *eLife* showing funder information in the institution-id tag. ROR already maps to Crossref Funder IDs.

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Martin Fenner, DataCite
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