

Building Open Research - One Checklist at a Time

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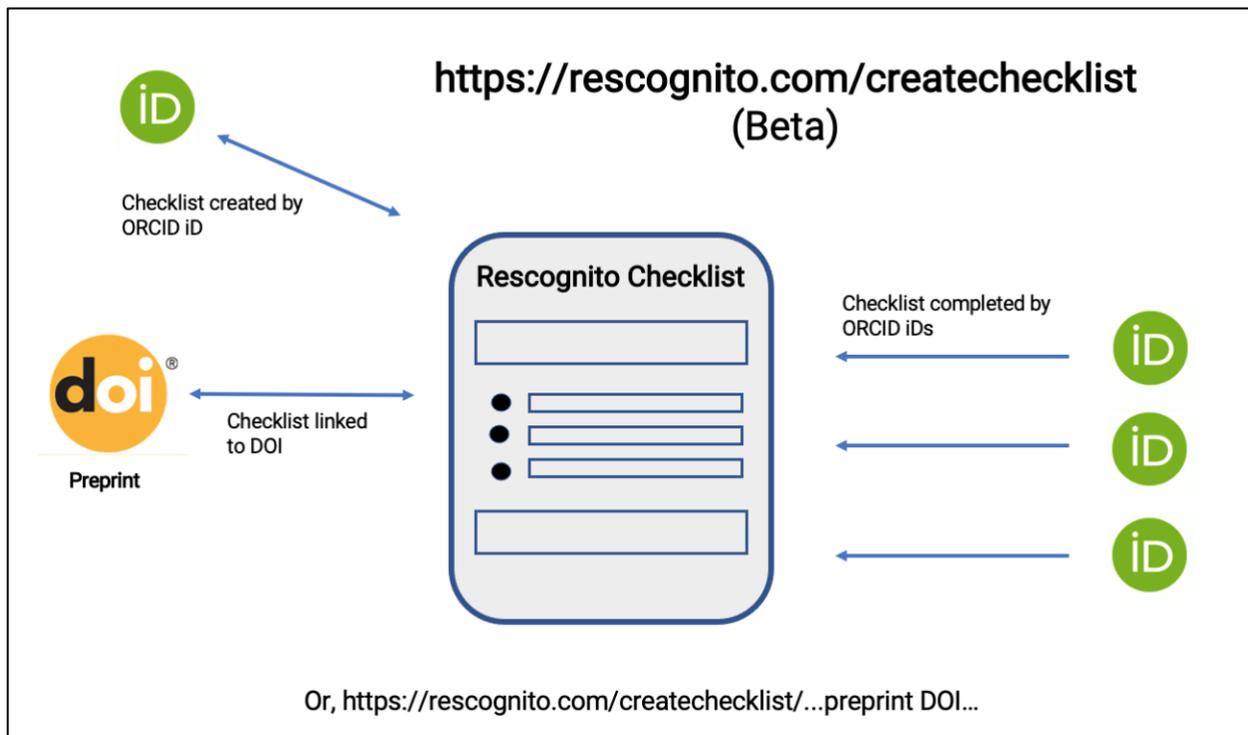
<https://rescognito.com/0000-0002-9217-0407>

Scholarly research advances by making, evaluating and building-on attributable “assertions”.

The most comprehensive way to register research assertions is by publishing articles in peer review journals; and this remains the “gold standard” for research progress.

However, traditional forms of publication can now be supplemented with more dynamic and nimble approaches that are based on the publication of granular assertions. Such assertions are equally attributable but offer significant advantages in terms of speed, cost, and flexibility.

Leveraging the PID (persistent identifier) and metadata scholarly infrastructure, Rescognito makes available free open research checklists.



Anyone with an ORCID iD can create their own checklist and associate the checklist with a DOI (Digital Object Identifier). The DOI is used to identify specific research outputs such as datasets, software, published manuscripts, protocols, etc.

The checklist author can select from a variety of question types:

Question 1 x

- ✓ Select question type
 - Single text response type (text)
 - Select-one response type (radio)
 - Select-any response type (checkbox)

Depending on the checklist purpose, authorized respondents can be limited. For example, if the checklist is used to collect conflict-of-interest statements from authors, the respondents can be limited to just the ORCID iDs of those authors.

Who can complete the checklist?

- Anyone with an ORCID ID can complete the checklist
- Only ORCID IDs associated with the DOI can complete the checklist
- Only I can complete the checklist

Once the checklist is created it can be shared with colleagues using a unique link, and the responses are stored in an open ledger linked to the DOI and ORCID iDs.

By way of example, please complete this checklist associated with this paper by following this link:

<https://rescognito.com/checklist/GsT8>

The screenshot shows the Rescognito website interface. At the top left is the Rescognito logo. To the right is a 'Sign In' button. Below the logo is a navigation menu with links for 'About', 'Terms', 'FAQ', 'Contact', and 'English'. A search bar with a 'Name' dropdown and a search icon is also present. The main content area is titled 'Feedback for "Building Open Research - One Checklist at a Time"'. It includes the following information:

- Checklist Owner: 0000-0002-9217-0407
- Linked DOI: doi.org/10.6084/m9.figshare.13154222.v1
- Checklist URL: rescognito.com/checklist/GsT8

Checklist Instructions:
Please provide feedback or suggestions about this idea. Thank you, Richard

Question 1: Do you think Open Research is an important trend and that new tools are needed?

- Yes
- No
- Don't know

Question 2: Please indicate which of the following applications might be addressed using open checklists:

- Collecting structured feedback on a Preprints
- Conflict-of-interest information declarations
- Research funder compliance data collection
- Running a journal club
- Collaboration amongst contributors to a DOI

Use Cases for Rescognito Open Checklists

Rescognito Open Checklists are significantly more cost-effective and flexible than traditional approaches, this means they can be deployed for a wide variety of open research purposes such as:

- Collecting *structured* feedback on a Preprints
- Conflict-of-interest information declarations
- Research funder compliance data collection
- Running a journal club
- Collaboration amongst contributors to a DOI
- Soliciting patient peer review
- Adding supplemental information to dataset or software DOIs
- Contributor declarations and assertions
- DOI curation such as adding supplemental information
- Compliance with reporting guidelines
- MDAR (Materials Design Analysis Reporting) forms

Why are Rescognito Checklists better than web site comment pages or Twitter?

When it comes to Open Research, Rescognito Open Checklists offer several advantages over free-text entry on web comment pages or Twitter:

- Rescognito checklists capture *structured* responses designed by the checklist author
- Checklist respondents are validated using ORCID
- Checklist responses can be verifiably limited to contributors of a particular DOI
- Completed checklists are verifiably associated to a DOI and ORCID iD(s)
- Checklist responses are permanently stored and associated with ORCID iDs and DOIs
- Checklist respondents receive credit/recognition for completing checklists

Institutional Checklists

Rescognito checklists are free to use for individual researchers.

Rescognito offers customized institutional-use checklists for deployment by organizations such as universities, libraries, publishers and research funders.