

What is Open Data in research?

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First, what's research data? Karger defines it as:

- ➔ The research data needed to verify results reported in a published (or submitted) article.
- ➔ Primary data (produced by authors) and secondary data (from other sources).
- ➔ Specifically, that could be tabular data, code, images, audio, documents, video, maps, raw and/or processed data, and more.



What makes it open? The research data can be:

- ➔ Freely accessed by anyone, anywhere.
- ➔ Freely used.
- ➔ Freely re-used (though the specific re-use rights depend on the terms of the open license chosen).

Why make research data open? What are the benefits?



Compliance:

- ➔ It may be required by funders' and institutions' policies.



Increase visibility and discoverability

- ➔ Get credit: It may benefit citations of published articles, and data sets can also be cited.



Advance science

- ➔ Others can build on studies, leading to new discoveries that benefit society.



Transparency and reproducibility

- ➔ Others can verify findings, validating (or building on) research and helping increase trust in science. Find out more about how Karger is [centering reproducibility and transparency in health science research](#).

Types of Open Access

- ➔ **Create a Data Availability Statement** detailing if data are available and where; if they're not, explain why. Karger requires this statement with all research manuscript submissions.
- ➔ Follow the [FAIR Data Principles](#).
- ➔ Find a suitable data repository. There are many **data repositories for specific data types or fields**. You can find a suitable data repository for your research in the Registry of Research Data Repositories ([re3data.org](#)) or FAIRsharing's data repositories registry ([fairsharing.org](#)).
- ➔ If there are no appropriate subject-specific data bases, **Karger recommends sharing data via a generalist public data repository**: These have a long-term data storage plan. They also assign your data an identifier, such as a DOI – which is important to **allow researchers to find and cite your data**. For this, check out Figshare ([figshare.com](#)), Dryad ([datadryad.org](#)), Zenodo ([zenodo.org](#)) or Open Science Framework ([osf.io](#)).



Want to learn more?

- ➔ Find thorough guidance about sharing data and Data Availability Statements for submitting a manuscript to any Karger journal on our [Publication Ethics page](#).
- ➔ Explore more about how Open Data fits with Open Access and Open Science [in this blog post](#) and on our [Open Science web page](#).
- ➔ Have questions? Write us at openaccess@karger.com any time!

