

# Generalist Repository Comparison Chart

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This chart is designed to assist researchers in finding a generalist repository should no domain repository be available to preserve their research data. Generalist repositories accept data regardless of data type, format, content, or disciplinary focus. For this chart, we included a repository available to all researchers specific to clinical trials (Vivli) to bring awareness to those in this field.

<https://fairsharing.org/collection/GeneralRepositoryComparison>

TOPIC	HARVARD DATAVERSE REPOSITORY	DRYAD	FIGSHARE	MENDELEY DATA	OSF	VIVLI	ZENODO
<b>Brief Description</b>	Harvard Dataverse Repository is a free data repository open to all researchers from any discipline, both inside and outside of the Harvard community, where you can share, archive, cite, access, and explore research data.	Open-source, community-led data curation, publishing, and preservation platform for CC0 publicly available research data Dryad is an independent non-profit that works directly with: <ul style="list-style-type: none"> <li>• researchers to publish datasets utilizing best practices for discovery and reuse</li> <li>• publishers to support the integration of data availability statements and data citations into their workflows</li> <li>• institutions to enable scalable campus support for research data management best practices at low cost</li> </ul>	A Data publishing platform for all researchers. Some of figshare's Core Beliefs: <p>Academic research outputs should be as open as possible, as closed as necessary</p> <p>Academic research outputs should never be behind a paywall</p> <p>Academic research outputs should be human and machine readable/query-able</p> <p>Academic infrastructure should be interchangeable</p> <p>Academic researchers should never have to put the same information into multiple systems at the same institution</p> <p>Identifiers for everything The impact of research is independent of where it is published and what type of output it is</p> <p>Figshare+ (<a href="https://plus.figshare.com/">https://plus.figshare.com/</a>) supports sharing larger datasets.</p>	Mendeley Data is a free repository specialized for research data. Search more than 20+ million datasets indexed from 1000s of data repositories and collect and share datasets with the research community following the FAIR data principles.	OSF is a free and open source project management tool that supports researchers throughout their entire project lifecycle in open science best practices.	Vivli is an independent, non-profit organization that has developed a global data-sharing and analytics platform. Our focus is on sharing individual participant-level data from completed clinical trials to serve the international research community.	Powering Open Science, built on Open Source. Built by reserachers for researchers. Run from the CERN data centre, whose purpose is long term preservation for the High Energy Physics discipline, one of the largest scientific datasets in the world
<b>Size limits</b>	No byte size limit per dataset. Harvard Dataverse Repository currently sets a file size limit of 2.5GB.	300GB/dataset	20GB for free figshare.com accounts. Figshare+ offers storage in tiers beginning at 100GB up to 10TB+ per dataset. System limit of 5TB/file.	10GB per dataset	Projects currently have not storage limit. There is a 5GB/file upload limit for native OSF Storage. There is no limit imposed by OSF for the amount of storage used across add-ons connected to a given project.	If more than 1TB of study data, reach out to us at <a href="mailto:support@vivli.org">support@vivli.org</a> so we can help transfer your data.	50GB per dataset, contact us via <a href="https://zenodo.org/support">https://zenodo.org/support</a> for higher limits

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<b>Storage space per researcher</b>	1 TB per researcher	No limit	No limit	No limit	No limit	No limit	No limit
<b>Persistent, Unique Identifier Support</b>	DOI	DOI	DOI	DOI	DOI	DOI	DOI
<b>Licensing Options</b>	By default, datasets are published in the public domain (CC0). Depositors can change this to apply their own licenses.	CC0	Figshare default licenses supported: CC0 1.0 CC BY 4.0 MIT Apache 2.0 GPL v3 GPL v2  Figshare+ also supports: CC BY-SA 4.0 CC BY-ND 4.0 CC BY-NC 4.0 CC BY-NC-SA 4.0 CC BY-NC-ND 4.0 BSD 3-Clause"	Default licenses supported: CC0 1.0 CC BY 4.0 CC BY NC 3.0 MIT Apache 2.0 BSD 3-Clause BSD 2-Clause GPL v3 GPL v2 LGPL MPL-2.0 CeCILL CeCILL-B CERN OHL TAPR OHL"	"The following 14 licenses are available: No License - is a copyright license for the project authors and contributors CC0 1.0 CC-By 4.0 MIT Apache 2.0 BSD 2-Clause BSD 3-Clause GPL 3.0 GPL 2.0 Artistic 2.0 Eclipse 1.0 LGPL 3.0 LGPL 2.1 Mozilla 2.0 Other- user defines a license in a .txt file and uploads to the project (not available on registrations or collections)	<a href="https://vivli.org/resources/vivli-data-use-agreement/">https://vivli.org/resources/vivli-data-use-agreement/</a>	Content is available publicly under any one of 400 open licences (from opendefinition.org and spdx.org). Restricted and Closed content is also supported.
<b>Costs to the researcher</b>	"Harvard Dataverse Repository is free for all researchers worldwide (up to 1 TB)"	Costs covered by institutional, publisher, and funder members, otherwise a one-time fee of \$120 for authors to cover cost of curation and preservation	Free Figshare+ has a one time fee based on storage size for sharing larger datasets and data review.	Free	Free	There is no charge for academic researchers who want to share the data from their completed clinical research.	Free

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<b>Equitable free and ongoing access to data</b>	Use of CC0 and free data access highly encouraged. Support for broad indexing and long-term preservation strategies	CC0, publicly available, broadly indexed research data with long-term preservation strategy	Metadata is CC0. All files and metadata can be accessed from docs.figshare.com. Figshare has a long-term preservation plan to restore public user content from an archive if needed.	"Metadata is licensed CC0. Datasets are and will continue to be free access Long-term access in the event of cease of operations granted by DANS. Access to archived datasets will be provided for free in perpetuity"	Open, public API to support broad indexing, partnership with Internet Archive for long-term preservation, \$250k preservation fund.	Access is managed as Vivli focuses on sharing anonymized individual participant data from completed clinical research. No charge period for data that is accessible only with a research environment. Costs after no charge time period ends. <a href="https://vivli.org/resources/requestdata/">https://vivli.org/resources/requestdata/</a>	Metadata is licensed CC0. Content is both online on disk and offline on tape as part of long-term preservation policy
<b>Version Support</b>	Yes, including version comparison and W3C provenance support	Yes, versioning is supported	Yes, versioning is supported and DOIs are versioned for certain changes	Yes, including version comparison, to easily see what has changed from version to version	Yes for OSF Storage, when supported for integrated storage providers	Yes, DOIs are updated when new versions of data are added.	Yes, with "Concept" DOI to represent "all versions"
<b>Characteristics - Standards</b>							
<b>Supported Metadata Schemas</b>	Dublin Core, Data Documentation Initiative Codebook, DataCite, OpenAIRE, Schema.org, Open Archives Initiative Object Reuse and Exchange (OAI-ORE)	DataCite, schema.org	Dublin Core (oai_dc), Datacite (oai_datacite), RDF (rdf), CERIF XML (cerif), Qualified Dublin Core (qdc) (hasPart support), Metadata Encoding and Transmission Standard (mets) and UKETD_DC (uketd_dc)	Dublin Core, DataCite, Schema.org	Datacite, Crossref preprint	DataCite, Schema.org	DataCite
<b>Formats Supported for Export</b>	JSON, XML	Fully documented API available for direct integration. Exports available in JSON, XML, schema.org	Dublin Core (oai_dc), Datacite (oai_datacite), RDF (rdf), CERIF XML (cerif), Qualified Dublin Core (qdc) (hasPart support), Metadata Encoding and Transmission Standard (mets) and UKETD_DC (uketd_dc)	JSON, XML	JSON, API, JSONAPI	All formats are supported to export results.	DataCite, Dublin Core, DCAT-AP, JSON, JSON-LD, GeoJSON, MARCXML, Citation Style Language JSON + support for custom metadata formats

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<b>Supported Community Vocabulary or Taxonomy</b>	ISO 3166-1 CV for geospatial metadata, ISO 639-1 CV for languages, DataCite's dataset contributor vocab, and subsets of the OBI Ontology and NCBI Taxonomy for Organisms	ORCID - Authors ROR - Institutions Open Funder Registry - Funding PLOS Thesaurus - Keywords	ORCID - Authors, Dimensions - Funding, Field of Research codes - Research category, GRID ids - Research Organizations and Funders, implementing ROR - research organizations	Omniscience taxonomy for subject categories and keywords, and additional custom vocabularies can be loaded on institutional version	BePress 3 tier taxonomy for preprints and custom taxonomy mapped to Bepress on preprints	Cochrane Linked Data Vocabulary	ORCID - Authors, FundRef + OpenAIRE Projects Database - Funding

### Characteristics Useful for Linking data to other relevant digital information

<b>Support for creators/authors identifiers</b>	ORCID, ISNI, LCNA, VIAF, GND, DAI, ResearcherID and ScopusID	ORCID required for corresponding author, co-author ORCID supported	ORCID integration	ORCID - Mendeley ID - Scopus Author ID	ORCID, ResearcherID	ORCID	ORCID, GND, ISNI
<b>Support linking to related publications</b>	Yes	DataCite relation types	DataCite relation types	Yes, DataCite and Scholix relation types	Preprints link to related Peer-reviewed publications using Crossef 'isPrerint of'	Yes	DataCite relation types
<b>Linking of derived products from another</b>	Yes	DataCite relation types	DataCite relation types	Yes, DataCite and Scholix relation types	No	Yes	DataCite relation types
<b>Grant ID(s)</b>	Yes	Yes	Dimensions.ai	Yes, customizable on institutional version	No	Yes by early 2023	Yes
<b>Grant ID affiliation(s)</b>	Yes	Open Funder Registry	Dimensions.ai	Yes, customizable on institutional version	No	Yes by early 2023	Yes
<b>Creator/author affiliations(s)</b>	Yes	ROR for all authors	GRID, implementing ROR	Yes, Mendeley Institution IDs (Ringgold)	No	Yes	Yes
<b>Linking to related software</b>	Yes	DataCite relation types	DataCite relation types	Yes with semantic links	No		DataCite relation types
<b>Linking to related research product</b>	Yes	DataCite relation types	DataCite relation types	Yes with semantic links	No	Yes	DataCite relation types

### Characteristics supporting Metrics

<b>Supported Data Use Metrics</b>	Downloads, explorations, data volume	Investigations (Views), Requests (Downloads), citations	View, downloads, citations, Altmetrics	Views, downloads, altmetrics	Downloads (per version), Links, Forks	<a href="https://vivli.org/resources/platform_metrics/">https://vivli.org/resources/platform_metrics/</a> and Views, Downloads and Citations.	Views, Downloads, Data Volume, Citations, Altmetrics
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<b>Make Data Count</b>	No	Following standards: Counter Code of Practice for Research Data (Make Data Count) in both standardizing and reporting usage to DataCite	Following standards: Counter Code of Practice for Research Data Usage (Make Data Count)	Following standards: Counter Code Of Practice for Research Data Usage Metrics (Make Data Count)	No	Following standards: Counter Code Of Practice for Research Data Usage Metrics (Make Data Count)	Following standards: Counter Code Of Practice for Research Data Usage Metrics (Make Data Count)
<b>Characteristics supporting protection and related journal articles</b>							
<b>Support embargo</b>	Yes	So long as the related journal requires or allows this	Yes	Yes	Yes for registrations only	Yes	Yes
<b>Supports peer review during embargo (e.g. "temporary share link")</b>	Yes	Private for Peer Review URL available	Yes Private link function	Yes	View only link with ability to anonymize contributor list	Yes	Yes
<b>Support managed access</b>	Yes, with request access workflow	Only for peer review pre-publication	Yes	Yes, by end of Q2 2020	Yes with request access and private sharing setting	Yes	Yes, with access request workflow
<b>Preservation</b>	BagIt bags to the Chronopolis via DuraCloud, Archivematica Integration, Installation-specific preservation setups (ex. Harvard Dataverse preserves files at Harvard FAS Research Computing), Reformat upon ingest to preservation formats (for some proprietary original formats)	Core Trust Seal Certified Merritt repository with storage in US and EU: at San Deigo Supercomputing Center, DANS, and Zenodo	BagIt bags preserved in CLOCKSS	DANS. Storage in perpetuity	\$250k Preservation fund, IMLS grant for transfer to Internet Archive (In progress)	Vivli has more than 40 institutional members with multi-year contracts along with project funding. <a href="https://vivli.org/annualreport/">https://vivli.org/annualreport/</a>	CERN Tape Archive
<b>Human subject research data at the individual participant level</b>	No support for preserving/publishing data with identifying human information	No support for identifying human information	No support for identifying human information	No support for identifying human information	No	Yes, anonymized individual-level patient data in clinical research made available to qualified researchers.	Any anonymous or anonimised data

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<b>Other Information</b>							
<b>Business Model</b>	Support from Harvard University, Public and Private Grants, and an emergent Consortium model	Non-profit with community memberships (institutions, publishers, funders), direct funder support through grants, and data publishing charges	Institutional, Publisher, Funder, Government agency, and Corporate service subscriptions, data publishing charges for large datasets	Subscription model for Academic & Government entities	Non-profit with direct funder support through grants, government contracts, and community memberships.	Funded via grants and member fees.	Base infrastructure by CERN, a non-profit IGO. Projects through Grants
<b>Links to Registries for more information</b>							
<b>FAIRsharing record</b>	<a href="https://doi.org/10.25504/FAIRsharing.t2e1ss">https://doi.org/10.25504/FAIRsharing.t2e1ss</a>	<a href="https://doi.org/10.25504/FAIRsharing.wkggtx">https://doi.org/10.25504/FAIRsharing.wkggtx</a>	<a href="https://doi.org/10.25504/FAIRsharing.drtnh">https://doi.org/10.25504/FAIRsharing.drtnh</a>	<a href="https://doi.org/10.25504/FAIRsharing.3epmpp">https://doi.org/10.25504/FAIRsharing.3epmpp</a>	<a href="https://doi.org/10.25504/FAIRsharing.g4z879">https://doi.org/10.25504/FAIRsharing.g4z879</a>	<a href="https://doi.org/10.25504/FAIRsharing.uovQrT">https://doi.org/10.25504/FAIRsharing.uovQrT</a>	<a href="https://doi.org/10.25504/FAIRsharing.wy4egf">https://doi.org/10.25504/FAIRsharing.wy4egf</a>
<b>re3data record</b>	<a href="http://doi.org/10.17616/R3C880">http://doi.org/10.17616/R3C880</a>	<a href="http://doi.org/10.17616/R34S33">http://doi.org/10.17616/R34S33</a>	<a href="http://doi.org/10.17616/R3PK5R">http://doi.org/10.17616/R3PK5R</a>	<a href="http://doi.org/10.17616/R3DD11">http://doi.org/10.17616/R3DD11</a>	<a href="http://doi.org/10.17616/R3N03T">http://doi.org/10.17616/R3N03T</a>	<a href="http://doi.org/10.17616/R3SB9S">http://doi.org/10.17616/R3SB9S</a>	<a href="http://doi.org/10.17616/R3QP53">http://doi.org/10.17616/R3QP53</a>