



FAIRsharing.org

FAIRsharing for database description and discovery

Allyson Lister, Content & Community Lead



datareadiness.eng.ox.ac.uk

Allyson's RDA/EOSC Future Domain Ambassadorship supported by



RESEARCH DATA ALLIANCE

Supported by the Research Data Alliance through the RDA Open Calls as part of the EOSC Future project.



The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 101017536.



contact@fairsharing.org



@fairsharing@fediscience.org



[@FAIRsharing_org](https://twitter.com/FAIRsharing_org)

FAIRsharing.org  Educational

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How can **policymakers** and **RDM professionals** help guide their **stakeholders** (e.g. RPOs, PIs, technical teams, researchers) to the **standards** and **databases** that align with their needs?

How can **database developers** increase the **findability** of their resources and discover new opportunities for **collaboration**?

FAIRsharing enables **FAIR and open data** by aiding the findability and describing the interoperability of **standards, databases** and **policies**.

A very brief overview of **FAIR** and **CARE**

Data that is discoverable and usable at scale

SPRINGER NATURE

SCIENTIFIC DATA

OPEN

Comment: The FAIR Guiding Principles for scientific data management and stewardship

SUBJECT CATEGORIES

- » Research data
- » Publication characteristics

Mark D. Wilkinson, Michel Dumontier, IJsbrand Jan Aalbersberg, Gabrielle Appleton, Myles Axton, Arie Baak, Niklas Blomberg, Jan-Willem Boiten, Luiz Bonino da Silva Santos, Philip E Boume, Jildau Bouwman, Anthony J Brookes, Tim Clark, Mercè Crosas, Ingrid Dillo, Olivier Dumon, Scott Edmunds, Chris T Evelo, Richard Finkers, **Alejandra Gonzalez-Beltran**, Alasdair J G Gray, Paul Groth, Carole Goble, Jeffrey S. Grethe, Jaap Heringa, Peter A.C. 't Hoen, Rob Hooft, Tobias Kuhn, Ruben Kok, Joost Kok, Scott J. Lusher, Maryann E. Martone, Albert Mons, Abel L. Packer, Bengt Persson, **Philippe Rocca-Serra**, Marco Roos, Rene van Schaik, **Susanna-Assunta Sansone**, Erik Schultes, Thierry Sengstag, Ted Slater, George Strawn, Morris A. Swertz, Mark Thompson, Johan van der Lei, Erik van Mulligen, Jan Velterop, Andra Waagmeester, Peter Wittenburg, Katherine Wolstencroft, Jun Zhao, and Barend Mons

SCIENTIFIC DATA | 3:160018 | DOI: 10.1038/sdata.2016.18

589k

Article Accesses

3744

[Web of Science](#)

5823

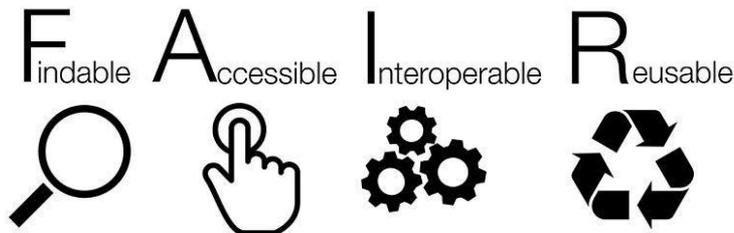
[CrossRef](#)

Online attention



- 1348 tweets
- 6 Google+ users
- 1 F1000
- 6051 Mendeley
- 166 blogs
- 169 news outlets
- 2 Video uploaders
- 20 Citeulike
- 21 Facebook pages
- 1 Redditors
- 26 Wikipedia page

This article is in the 99th percentile (ranked 40th) of the 301,216 tracked articles of a similar age in all journals and the 99th percentile (ranked 1st) of the 23 tracked articles of a similar age in *Scientific Data*



A set of principles to enhance the value of all digital resources and its reuse by **humans and machines**

The FAIR Principles: just guiding principles

A set of **principles** ... not a standard

To enhance the value of all digital resources and its reuse by
humans and machines



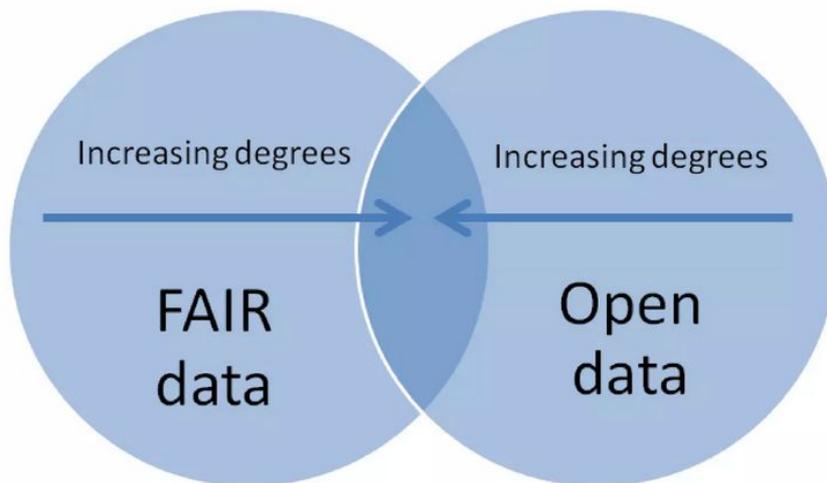
A continuum of increasing reusability, via many different implementations

Relaunch a dialogue with researchers and policy makers.

FAIR and Open

Concepts of FAIR and Open should not be conflated.
Data can be FAIR or Open, both or neither

- The greatest potential reuse comes when data are both FAIR and Open
- Align and harmonise FAIR and Open data policy



Remember that FAIR does not necessarily mean open; and that's OK!



Extending the reach of FAIR to other digital objects



Training material



SPRINGER NATURE

scientific data

OPEN
ARTICLE

Introducing the FAIR Principles for
research software

Michelle Barker^{1✉}, Neil P. Chue Hong², Daniel S. Katz³, Anna-Lena Lamprecht⁴,
Carlos Martinez-Ortiz⁵, Fotis Psomopoulos⁶, Jennifer Harrow⁷, Leyla Jael Castro⁸,
Morane Gruenpeter⁹, Paula Andrea Martinez¹⁰ & Tom Honeyman¹¹

Check for updates

<https://doi.org/10.1038/s41597-022-01710-x>

PLOS COMPUTATIONAL BIOLOGY

OPEN ACCESS

EDITORIAL

Ten simple rules for making training materials FAIR

Leyla Garcia, Bérénice Batut, Melissa L. Burke, Mateusz Kuzak, Fotis Psomopoulos, Ricardo Arcila, Teresa K. Attwood, Niall Beard, Denise Carvalho-Silva, Alexandros C. Dimopoulos, Victoria Dominguez del Angel, Michel Dumontier, Kim T. Gurwitz, Roland Krause, Peter McQuilton, Loredana Le Pera, Sarah L. Morgan, Päivi Rauste, Allegra Via, Pascal Kahlem, Gabriella Rustici, Celia W. G. van Gelder, Patricia M. Palagi [view less]

Published: May 21, 2020 • <https://doi.org/10.1371/journal.pcbi.1007854>

<https://doi.org/10.1371/journal.pcbi.1007854>



Software



RESEARCH DATA ALLIANCE

FAIR data stakeholders: it takes a village

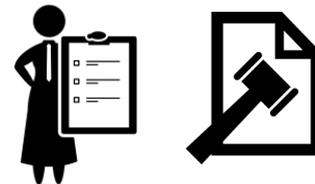


Researchers and company scientists *who generate and use data*



Created by Europe from Noun Project

Programme and institute directors *who set local policy, methodology, practice, resources and local sustainability, drive change management*



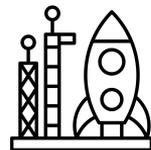
Authorities *who set community policy, practice, resources, compliance and global sustainability*



Created by Studio 365 from Noun Project

Created by Vectors Point from Noun Project

Data Stewards and Research Software Engineers *who support data and data analytics*



Created by Vectors Point from Noun Project

Service providers *who manage data and infrastructure from local to global from public to commercial*

Funders, policy makers, publishers, professional societies, standards organisations, institutions

Personal, project, organizational, and public responsibilities

Learn more about FAIR



faircookbook.elixir-europe.org

faircookbook-ed@elixir-europe.org

How to be FAIR with your data. A teaching and training handbook for higher education institutions



<https://fairsair.gitbook.io/fair-teaching-handbook/>

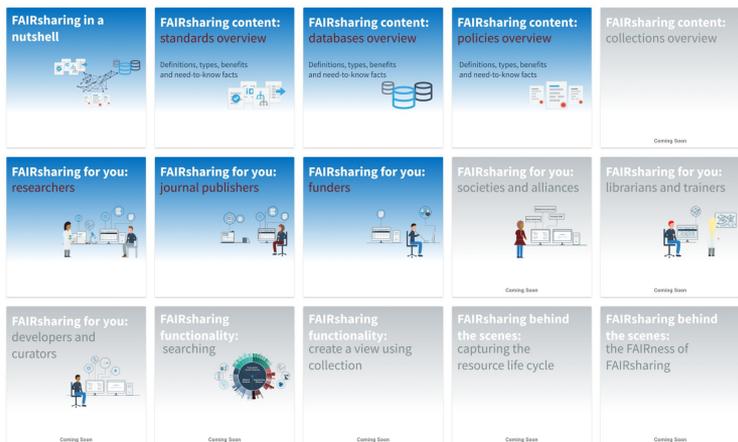
A deep dive into FAIR data

This website will take you on a deep dive into the subject matter of FAIR research data. Over the course of about two hours, it will show you that FAIR is not a time-consuming administrative mantra, but a set of principles that makes your research efficient, transparent and sustainable. Working in line with the FAIR principles to make your data more FAIR will improve your research data management and safeguard your research data for the future.

The aim here is to explore six key FAIRification practices, and show how they apply to your research. You will meet researchers working across Denmark in different research disciplines who share their thoughts and experiences on how they make their research data more FAIR.

Go through the course all in one sitting, or come back to each FAIRification practice as needed, it's up to you.

<https://howtofair.dk/>



FAIRsharing for you: researchers
*For the management and sharing of your data**

FAIRsharing guides you to...

- 1 use the right databases and standards to report your data
- 2 Make your data more discoverable, citable and reusable
- 3 write your Data Management Plan (DMP)**

FAIRsharing supports you to:

- Find sources of existing data (databases, repositories, knowledgebases) where you may find data of interest to your research
- Meet data policy requirements (Supporting you to select the right resources to fulfil data management policy and guidance from funders, journal publishers, projects, institutions and other organisations)
- Discover how to report, preserve, and share data (where your data is uniquely identified, according to your: type of data (e.g., datasets, software, documents))
- Choosing deposition resources, (domain (generalistic or discipline specific), access needs (open, partially open, controlled))
- Informing you on which standards (e.g., minimal information requirements, formats and terminologies) is required by the selected databases to describe and report your data

* Network, software, materials and other digital objects.
** Details on creating and generating your organization's data research Data Action Plan.

Funded by FAIRsharing, Horizon 2020, 101019230/FAIRsharing/101019230

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Find more at
fairsharing.org/educational

Article | [Open Access](#) | Published: 19 May 2023

FAIR in action - a flexible framework to guide FAIRification

[Danielle Welter](#), [Nick Juty](#), [Philippe Rocca-Serra](#), [Fuqi Xu](#), [David Henderson](#), [Wei Gu](#), [Jolanda Strubel](#), [Robert T. Giessmann](#), [Ibrahim Emam](#), [Yojana Gadiya](#), [Tooba Abbassi-Daloui](#), [Ebtisam Alharbi](#), [Alasdair J. G. Gray](#), [Melanie Courtot](#), [Philip Gribbon](#), [Vassilios Ioannidis](#), [Dorothy S. Reilly](#), [Nick Lynch](#), [Jan-Willem Boiten](#), [Venkata Satagopam](#), [Carole Goble](#), [Susanna-Assunta Sansone](#) & [Tony Burdett](#) ✉

[Scientific Data](#) 10, Article number: 291 (2023) | [Cite this article](#)

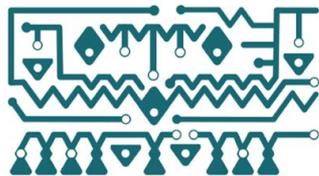
9 Altmetric | [Metrics](#)

<https://doi.org/10.1038/s41597-023-02167-2>

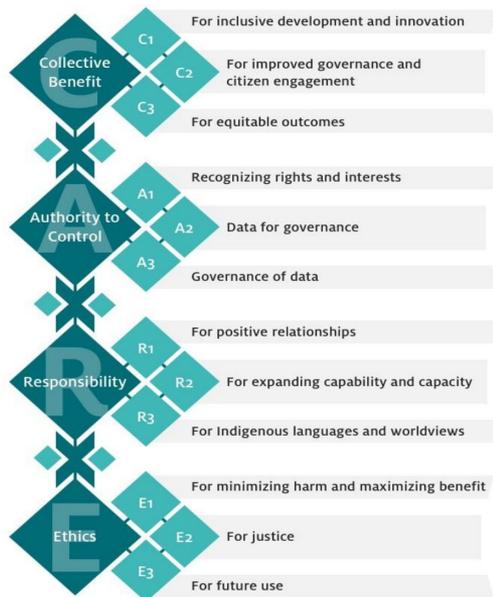
fairsharing.org/educational

Learn more about FAIR and CARE

<https://www.gida-global.org/care>



CARE Principles for Indigenous Data Governance



Comment | [Open Access](#) | [Published: 16 April 2021](#)

Operationalizing the CARE and FAIR Principles for Indigenous data futures

[Stephanie Russo Carroll](#) | [Edit Herczog](#), [Maui Hudson](#), [Keith Russell](#) & [Shelley Stall](#)

[Scientific Data](#) 8, Article number: 108 (2021) | [Cite this article](#)

22k Accesses | 71 Citations | 71 Altmetric | [Metrics](#)

<https://doi.org/10.1038/s41597-021-00892-0>

The CARE principles complement the existing [FAIR principles](#), which require data to be findable, accessible, interoperable and reusable. While the FAIR principles are about making it easier to share and reuse data, the CARE principles ensure that data is used ethically.

<https://ardc.edu.au/resource/the-care-principles/>

Blog

Working with the CARE principles: operationalising Indigenous data governance

Shifting the focus of data governance from consultation to values-based relationships to promote equitable Indigenous participation in data processes.

[Stephanie Russo Carroll](#), [Maui Hudson](#), [Jarita Holbrook](#), [Simeon Materechera](#), [Jane Anderson](#)
9 November 2020

Reading time: 19 minutes

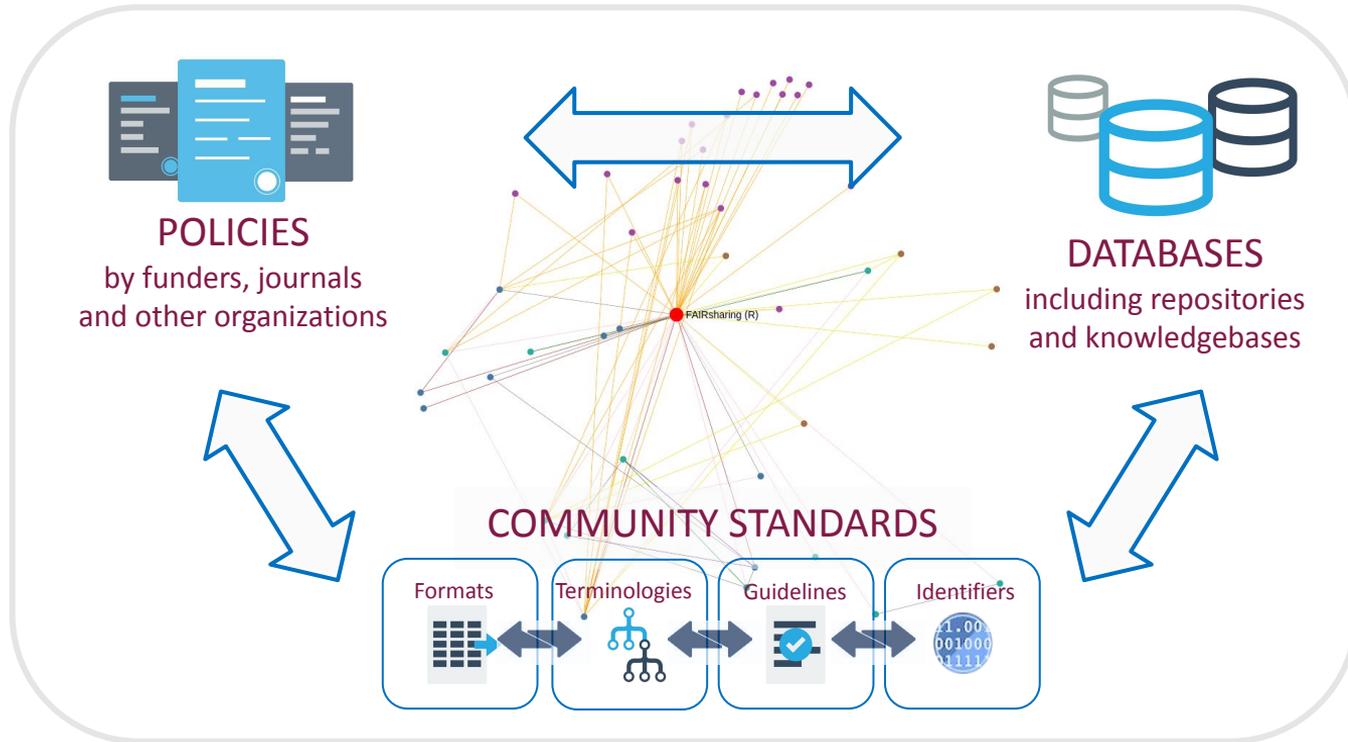


<https://www.adalovelaceinstitute.org/blog/care-principles-operationalising-indigenous-data-governance/>

FAIRsharing is a way to find **standards**, **databases**, and **policies**; and to explore the connections among them.

Add your resources to FAIRsharing to increase their visibility within that research landscape.

An informative and educational resource, and a service



FAIRsharing provides **curated descriptions** and **relationship graphs** of **standards, databases** and **policies**

Our mission and how we deliver it

Promote the *value* and *use* of **standards**, **databases** and **policies** in **all disciplines**, by engaging **stakeholders** across all sectors, through all stages of the research life cycle

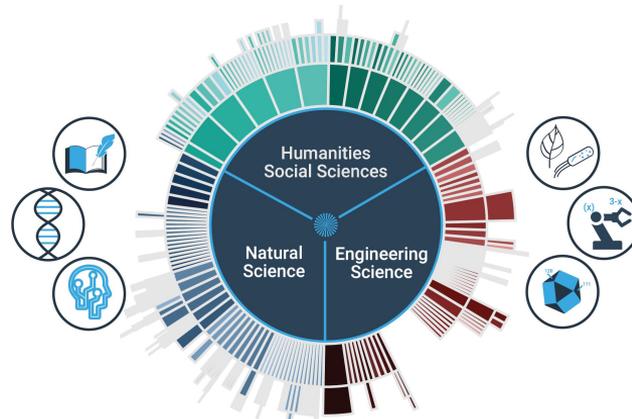
Researchers



Developers and curators



Librarians and Trainers



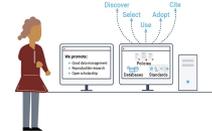
Funders



Journal publishers



Societies and Alliances



Guides **consumers** to *discover*, *select* and *use* these resources with confidence.

Helps **producers** to make their resources more *visible*, more widely *adopted* and *cited*.

Provides **humans** and **tools** with *access* to trustworthy content to *enable* data management tasks.

FAIRsharing in numbers: content, contributions, coverage

1279

Contributors

Our community of record maintainers and curators

4021

Records

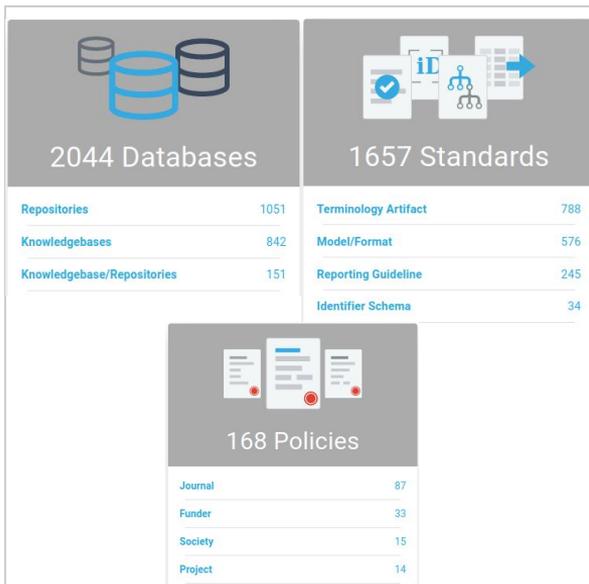
Descriptions of standards, databases and policies

198K

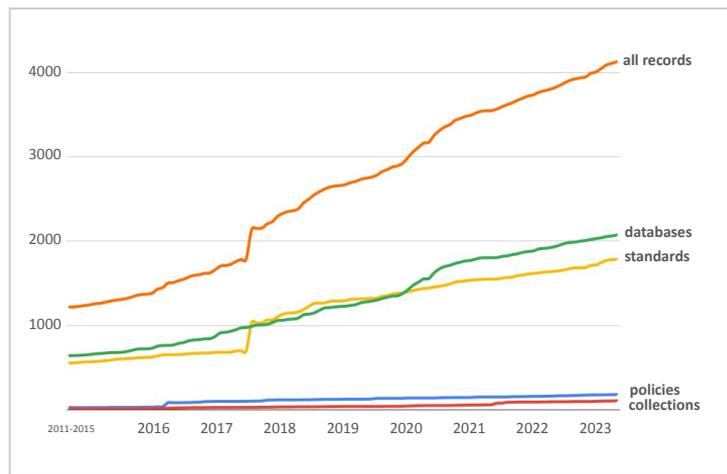
Views

Page visits since 2015

Types and subtypes



Growth since launch



as of September 2023

Disciplines

Natural Science

9050

Humanities and Social Science

800

Subject Agnostic

336

Engineering Science

1529

Working with and adopted by all stakeholders, all disciplines

Users, adopters and collaborators include:

Users from all stakeholder groups



An endorsed output of the FAIRsharing WG (since 2015):



A recommended resource in EOSC reports



A WG (since 2015) in:



WILEY
SPRINGER
NATURE



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FACULTY1000

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SCIENCE

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ROYAL SOCIETY
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RDA
RESEARCH DATA ALLIANCE



DataCite

COS
CENTER FOR
OPEN SCIENCE

COMMITTEE ON DATA
CODATA
INTERNATIONAL SCIENCE COUNCIL

GLOBAL FAIR

FORCE11

EOSC
EUROPEAN OPEN SCIENCE CLOUD FOR RESEARCH INFRASTRUCTURE

<https://fairsharing.org/communities>

FAIRsharing provides **metadata** about databases, standards, and policies, and curates the **relationships** among them all.

Metadata at-a-glance: record overview

GENERAL INFORMATION

This record replaces or incorporates the following deprecated resources:
[Dash](#)

  **DRYAD** Dryad Digital Repository (Dryad)
 [10.25504/FAIRsharing.wkggtx](https://doi.org/10.25504/FAIRsharing.wkggtx)



Type Repository
Registry Database

Description Dryad is an open-source, community-led data curation, publishing, and preservation platform for CC0 publicly available research data. Dryad has a long-term data preservation strategy, and is a Core Trust Seal Certified Merritt repository with storage in US and EU at the San Diego Supercomputing Center, DANS, and Zenodo. While data is undergoing peer review, it is embargoed if the related journal requires / allows this. Dryad is an independent non-profit that works directly with: researchers to publish datasets utilising best practices for discovery and reuse; publishers to support the integration of data availability statements and data citations into their workflows; and institutions to enable scalable campus support for research data management best practices at low cost. Costs are covered by institutional, publisher, and funder members, otherwise a one-time fee of \$120 for authors to cover cost of curation and preservation. Dryad also receives direct funder support through grants.

Homepage <http://datadryad.org/>

Year of Creation 2008

Maintainers [datadryad](#)

Countries developing this resource [United States](#), [Worldwide](#)

Subjects [Data Integration](#) [Data Management](#) [Subject Agnostic](#) [Database Management](#)

Domains [Citation](#) [Resource Metadata](#) [Data Retrieval](#) [Curated Information](#) [Digital Curation](#) [Literature Curation](#) [FAIR](#)

The following community curators have contributed to this record: [Inanderscience](#) , [gabrielpelletier](#) 



DOIs minted for database, policy and standard records



Attribution for our maintainer community via ORCID



Attribution for funding, collaborating and developing organisations via ROR (where applicable)

Over 40 metadata fields:

- *Research subjects and domains via community ontologies*
- *licence or terms of use*
- *datasets accessibility/openness*
- *accessibility mechanism*
- *policies (e.g. curation, preservation)*
- *PID schema*
- *data and metadata standards*
- *and many others...*

want to know more?

FAIRsharing Blog

blog.fairsharing.org/?p=191

FAIRsharing.org  Educational

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Metadata at-a-glance: record overview

GENERAL INFORMATION

This record replaces or incorporates the following deprecated resources:
Dash

DRYAD Dryad Digital Repository (Dryad)

10.25504/FAIRsharing.wkggtx

GENERAL INFORMATION

Inter-university Consortium for Political and Social Research (ICPSR)

10.25504/FAIRsharing.y0df7m

Year of Creation 1962

Maintainers jlyle ID

Homepage <http://datadryad.org/>

Year of Creation 2008

Maintainers datadryad

Countries developing this resource United States, Worldwide

Subjects Data Integration, Data Management, Subject Agnostic, Database Management

Domains Citation, Resource Metadata, Data Retrieval, Curated Information, Digital Curation, Literature Curation, FAIR

The following community curators have contributed to this record: [Inanderscience ID](#), [gabrielpelletier ID](#)



DOIs minted for database, policy and standard records



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blog.fairsharing.org/?p=191

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Metadata at-a-glance: record overview

GENERAL INFORMATION

This record replaces or incorporates the following deprecated resources:
Dash

 **DRYAD** Dryad Digital Repository (Dryad)

ORGANISATIONS

Type
Registry
Description

Organisations maintaining this resource

Dryad **Lead**
(Government body)  <https://ror.org/00x6h5n95>

Homepages
Year of
Maintenance

Organisations funding this resource

National Science Foundation
(Government body)  <https://ror.org/021nxhr62>
Grants: 0830944, 1147166

Countries of this resource
Subject
Domain

The following community curators have contributed to this record: [Inanderscience](#) , [gabrielpelletier](#) 



DOIs minted for database, policy and standard records



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- *accessibility mechanism*
- *policies (e.g. curation, preservation)*
- *PID schema*
- *data and metadata standards*
- *and many others...*

want to know more?
→ **FAIRsharing Blog**
blog.fairsharing.org/?p=385

Metadata descriptions: relationships

GENERAL INFORMATION



ChEMBL (ChEMBL)
10.25504/FAIRsharing.m3jtpg



Type Knowledgebase
Registry Database
Description ChEMBL is an open, manually-curated, large-scale bioactivity database containing information from medicinal chemistry literature. It brings together chemical, bioactivity and genomic data to aid the translation of genomic information into effective new drugs. Information regarding the compounds tested (including their structures), the biological or physicochemical assays performed on these and the targets of these assays are recorded in a structured form, allowing users to address a broad range of drug discovery questions.
Homepage <https://www.ebi.ac.uk/chembl>
Year of Creation 2009
Maintainers [agaulton](#)
Countries developing this resource Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Lithuania, Luxembourg, Malta, Montenegro, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, United Kingdom
Subjects Drug Discovery, Biochemistry, Genomics, Medicinal Chemistry
Domains Chemical Structure, Drug, Chemical Entity, Bioactivity, Small Molecule, Genome, Tissue
Taxonomic Range All
User Defined Tags None

[VIEW RELATION GRAPH](#)

How to cite this record

FAIRsharing.org: ChEMBL: ChEMBL, DOI: 10.25504/FAIRsharing.m3jtpg, Last Edited: Thursday, March 17th 2022, 10:51, Last Editor: allysonlister, Last Accessed: Thursday, March 17th 2022, 10:51

Publication for citation

ChEMBL: towards direct deposition of bioassay data.. Mendez D,Gaulton A,Bento AP,Chambers J,De Veij M,Felix E,Magarinos MP,Mosquera JF,Mutowo P,Nowotka M,Gordillo-Maranon M,Hunter F,Junco L,Mugumbate G,Rodriguez-Lopez M,Atkinson FBosc N,Radoux CJ,Segura-Cabrera A,Hersey A,Leach AR (2018) 10.1093/nar/gky1075

Record ID 1561 | Record created at Tuesday, November 4th 2014, 15:23 | Record updated at Thursday, March 17th 2022, 10:51

RELATED CONTENT

Search through related standards

RELATED STANDARDS (18)	RELATED DATABASES (19)
 <p>Chemical Entities of Biological Interest ChEMBL implements Chemical Entities of Biological Interest</p>	
 <p>BRENDA tissue / enzyme source ChEMBL implements BRENDA tissue / enzyme source</p>	
 <p>CHEMical INformation Ontology ChEMBL implements CHEMical INformation Ontology</p>	

Metadata descriptions: relationships

GENERAL INFORMATION

ChEMBL (ChEMBL)

[10.25504/FAIRsharing.m3jtpg](https://doi.org/10.25504/FAIRsharing.m3jtpg)

Type: Knowledgebase

Registry: Database

Description: ChEMBL is an open, manually-curated, large-scale bioactivity database containing information from medicinal chemistry literature. It brings together chemical, bioactivity and genomic data to aid the translation of genomic information into effective new drugs. Information regarding the compounds tested (including their structures), the biological or physicochemical assays performed on these and the targets of these assays are recorded in a structured form, allowing users to address a broad range of drug discovery questions.

Homepage: <https://www.ebi.ac.uk/chembl>

Year of Creation: 2009

Maintainers: [agaulton](#)

Countries developing this resource: Austria, Belgium, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Lithuania, Luxembourg, Malta, Montenegro, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland, United Kingdom

Subjects: Drug Discovery Biochemistry Genomics Medicinal Chemistry

Domains: Chemical Structure Drug Chemical Entity Bioactivity Small Molecule Genome Tissue

Taxonomic Range: All

User Defined Tags: None

How to cite this record

FAIRsharing.org: ChEMBL: ChEMBL, DOI: [10.25504/FAIRsharing.m3jtpg](https://doi.org/10.25504/FAIRsharing.m3jtpg), Last Edited: Thursday, March 17th 2022, 10:51, Last Editor: allysonlister, Last Accessed: Thursday, March 17th 2022, 10:51

Publication for citation

ChEMBL: towards direct deposition of bioassay data.. Mendez D,Gaulton A,Bento AP,Chambers J,De Veij M,Felix E,Magarinos MP,Mosquera JF,Mutowo P,Nowotka M,Gordillo-Maranon M,Hunter F,Junco L,Mugumbate G,Rodriguez-Lopez M,Atkinson FBosc N,Radoux CJ,Segura-Cabrera A,Hersey A,Leach AR (2018) [10.1093/nar/gky1075](https://doi.org/10.1093/nar/gky1075)

Record ID 1561 | Record created at Tuesday, November 4th 2014, 15:23 | Record updated at Thursday, March 17th 2022, 10:51

Registry	Status (shown on mouseover)
COLLECTION	READY
DATABASE	IN DEVELOPMENT
STANDARD	UNCERTAIN
POLICY	DEPRECATED

doi.org/10.25504/FAIRsharing.m3jtpg

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Tracking evolution: deprecation and tombstoning DOIs

1. Deprecate a record when a resource has been *retired* and is no longer available

2. Deprecate a record when a resource has been *superseded*, e.g., merged into another

3. Tombstone a record when it should not have been added, e.g., when a resource is added twice or by mistake

GENERAL INFORMATION

This record was deprecated on 2021-05-27 for the following reason(s): The UniGene database and web pages have been retired. Please see <https://ncbiinsights.ncbi.nlm.nih.gov/2019/07/30/the-unigene-web-pages-are-now-retired/> for more information.

UniGene gene-oriented nucleotide sequence clusters (UniGene)

10.25504/FAIRsharing.ge1c3p

Type: Repository
Registry: Database

Description
Each UniGene entry is a set of transcript sequences that appear to come from the same transcription locus (gene or expressed pseudogene), together with information on protein similarities, gene expression, cDNA clone reagents, and genomic location.

GENERAL INFORMATION

This record was deprecated on 2014-04-01 for the following reason(s): This standard has been revised and is superseded by ISO 19115-1:2014. However, many other resources still reference this particular version.

This record is replaced by:

ISO 19115-1:2014 Geographic information -- Metadata -- Part 1: Fundamentals

ISO 19115:2003 Geographic information -- Metadata (ISO 19115:2003)

Awaiting DOI

! This record does not exist anymore: Genome Association File version 2. The record with DOI 10.25504/FAIRsharing.s8eek was invalid.

Description: This resource is no longer available because it replicates another entry in FAIRsharing. Please refer to <https://doi.org/10.25504/FAIRsharing.IIMCe0>

Search through current results.

MATCH ALL TERMS | MATCH ANY TERM

MAINTAINED | NOT MAINTAINED

RECOMMENDED | NOT RECOMMENDED

READY | DEPRECATED | UNCERTAIN | IN DEV.

Record Status

ready (R) | deprecated (D) | uncertain (U) | In Development (Dev)

530 deprecated records

Best Practices for Tombstone Pages 

DOIs are persistent identifiers (PIDs), which means that they are intended to be a permanent means of identifying and accessing a particular resource. Because of this, a DataCite DOI cannot be deleted. However, there may be infrequent cases where it is not desirable for the item described by a DOI to be available publicly, such as in the case of research retraction. In these cases, it is best practice to still provide a "tombstone page", which is a special type of landing page describing the item that has been removed. Tombstone pages are generally the responsibility of the organization responsible for maintaining the DOI (in other words, a DataCite Partner).

<https://support.datacite.org/docs/tombstone-pages>

ORCID Registry

GENERAL INFORMATION

Open Researcher and Contributor ID Registry (ORCID)

 [10.25504/FAIRsharing.nx58jg](https://doi.org/10.25504/FAIRsharing.nx58jg)

Type Repository

Registry Database

Description ORCID is an open, non-profit, community-driven effort to create and maintain a registry of unique researcher identifiers and a transparent method of linking research activities and outputs to these identifiers. The ORCID Registry is a repository of unique researcher identifiers which allows researchers to manage a record of their research activities. In addition, there are APIs that support system-to-system communication and authentication. ORCID makes its code available under an open source license, and will post an annual public data file under a CCD waiver for free download.

Homepage <http://orcid.org/>

Year of Creation 2011

Maintainers ORCID

Countries developing this resource [United States](#)

Subjects [Subject Agnostic](#)

Domains [Resource Collection](#) [Centrally Registered Identifier](#) [Digital Curation](#)

Taxonomic Range [Not applicable](#)

User Defined Tags N/A

[VIEW RELATION GRAPH](#)

 **How to cite this record**

FAIRsharing.org: ORCID; Open Researcher and Contributor ID Registry, DOI: [10.25504/FAIRsharing.nx58jg](https://doi.org/10.25504/FAIRsharing.nx58jg), Last Edited: Friday, July 22nd 2022, 13:40, Last Editor: allysonlister, Last Accessed: Wednesday, October 4th 2023, 9:57

mouse/trackpad to scroll and zoom.
For more information, please see the [documentation](#).
Relations between records are coloured as follows:

-  Deprecates
-  Recommends
-  Collects
-  Profiles
-  Accepts
-  Outputs
-  Shares code with
-  Shares data with
-  Implements
-  Extends
-  Related to

Registry

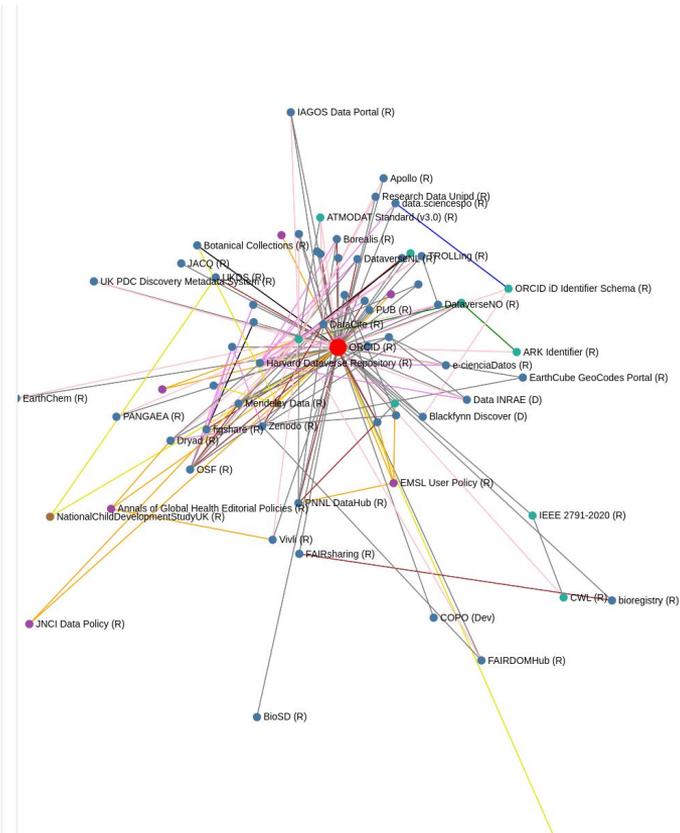
- [COLLECTION](#)
- [DATABASE](#)
- [STANDARD](#)
- [POLICY](#)

Status (shown on mouseover)

- [READY](#)
- [IN DEVELOPMENT](#)
- [UNCERTAIN](#)
- [DEPRECATED](#)

Distance from centre

- [ONE HOP](#)
- [TWO HOPS](#)



ORCID Identifier Schema



Open Researcher and Contributor ID Identifier Schema (ORCID ID Identifier Schema)

[10.25504/FAIRsharing.OrNi1L](https://doi.org/10.25504/FAIRsharing.OrNi1L)

Type Identifier schema

Registry Standard

Description The ORCID Identifier Schema is an https URI with a 16-digit number that is compatible with the ISO Standard (ISO 27729), also known as the International Standard Name Identifier (ISNI), e.g. <https://orcid.org/0000-0001-2345-6789> Initially ORCID IDs will be randomly assigned by the ORCID Registry from a block of numbers that will not conflict with ISNI-formatted numbers assigned in other ways. ORCID IDs always require all 16 digits of the identifier; they can not be shortened to remove leading zeros if they exist. No information about a person is encoded in the ORCID ID. The identifiers were designed to be usable in situations where personally-identifiable information should/can not be shared. Also, since the ORCID ID is designed to be a career-long identifier, no information that can change over a person's career is embedded in the ID, e.g., country, institution, field of study.

Homepage <https://support.orcid.org/hc/en-us/articles/360006897674-Structure-of-the-ORCID-Identifier>

Year of Creation 2011

Maintainers ORCID

Countries developing this resource [Worldwide](#)

Subjects [Knowledge And Information Systems](#)

Domains [Centrally Registered Identifier](#)

Taxonomic Range [Not applicable](#)

User Defined Tags N/A

[VIEW RELATION GRAPH](#)

How to cite this record

FAIRsharing.org: ORCID ID Identifier Schema; Open Researcher and Contributor ID Identifier Schema, DOI: [10.25504/FAIRsharing.OrNi1L](https://doi.org/10.25504/FAIRsharing.OrNi1L), Last Edited: Friday, November 11th 2022, 11:34, Last Accessed: Wednesday, October 4th 2023, 9:57

TRANSFERRED DEVELOPMENT TO SHARON BIRNBAUM

For more information, please see the [documentation](#).

Relations between records are coloured as follows:

- Deprecates
- Recommends
- Collects
- Profiles
- Accepts
- Outputs
- Shares code with
- Shares data with
- Implements
- Extends
- Related to

Registry

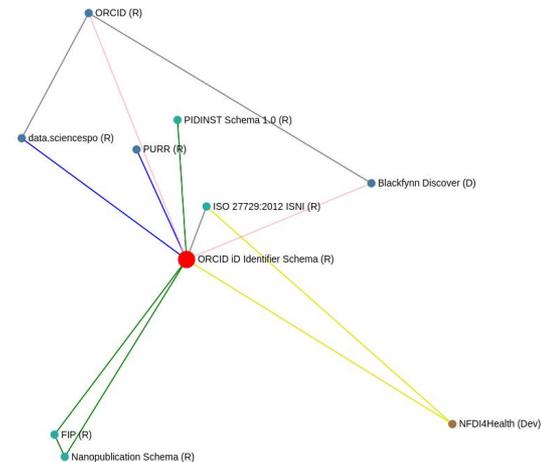
- COLLECTION
- DATABASE
- STANDARD
- POLICY

Status (shown on mouseover)

- READY
- IN DEVELOPMENT
- UNCERTAIN
- DEPRECATED

Distance from centre

- ONE HOP
- TWO HOPS



FAIRsharing allows you to explore the landscape of resources according to a number of different metadata fields.

Use our **Assistant** (in development) to be guided to the set of resources you are looking for.

The FAIRsharing Assistant provides guidance for finding resources

<https://assist.fairsharing.org>

FAIRsharing Assistant *Beta*

FAIRsharing.org
standards, databases, policies

FAIRsharing is a curated registry of data and metadata standards, databases and data policies.

This Assistant will help you find the standards, databases and policies you need to help make your data FAIR.

GET STARTED

[¶]The FAIRsharing Assistant is currently in beta. Please [contact us](#) if you wish to share feedback.

*FAIRsharing uses 'data' to refer to datasets, software, materials or any other digital object.

†Please note that we do not recommend the use of your browser's 'back' button as its behaviour is not yet fully integrated with the Assistant.

© FAIRsharing 2009-Present | Licenced under [Creative Commons by Share Alike 4.0 International](#)

Define type and characteristics of the records

By selecting relevant values, the Assistant will narrow your search to the records that most closely match your needs.

1056 Databases

- SUBJECTS
- DOMAINS
- TAXONOMIC RANGE
- USER DEFINED TAGS

VIEW RECORDS | EDIT TAGS | CLEAR ALL SELECTIONS | HOME

SHOW HELP

Below, you can select what sort of Database record you need.

- Knowledgebase
- Repository
- Hybrid Knowledgebase/Repository
- User persistent identifier
 - Yes
 - No
 - Either
- Has Publication
 - Yes
 - No
 - Either
- Data Preservation Policy
 - Yes
 - No
 - Either
- Resource Sustainability
 - Yes
 - No
 - Either
- Link type status
 - Link
 - Re-developer
- Data Access Condition
- Data Duration
- Data Deposition Condition
- Citation To Related Publications
- Data Access For Pre-Publication Review
- Data Contact Information
- Data Versioning

The FAIRsharing Assistant is currently in beta. Please [contact us](#) if you wish to share feedback.
We do not recommend the use of your browser's 'back' button as its behaviour is not yet fully integrated with the Assistant.

FAIRsharing allows you to discover resources by country

<https://fairsharing.org/search?q=africa>

<https://fairsharing.org/1843> <https://fairsharing.org/2888>
<https://fairsharing.org/1879> <https://fairsharing.org/2977>
<https://fairsharing.org/2160> <https://fairsharing.org/3039>
<https://fairsharing.org/2250> <https://fairsharing.org/3044>
<https://fairsharing.org/2266> <https://fairsharing.org/3070>
<https://fairsharing.org/2461> <https://fairsharing.org/3092>
<https://fairsharing.org/2467> <https://fairsharing.org/3108>
<https://fairsharing.org/2468> <https://fairsharing.org/4387>
<https://fairsharing.org/2469> <https://fairsharing.org/4423>
<https://fairsharing.org/2470> <https://fairsharing.org/4635>
<https://fairsharing.org/2473> <https://fairsharing.org/3514>

Databases

<https://fairsharing.org/3355>
<https://fairsharing.org/3681>

Policies

<https://fairsharing.org/3> <https://fairsharing.org/1232>
<https://fairsharing.org/752> <https://fairsharing.org/1260>
<https://fairsharing.org/844> <https://fairsharing.org/1306>
<https://fairsharing.org/919> <https://fairsharing.org/1515>
<https://fairsharing.org/1090> <https://fairsharing.org/1520>
<https://fairsharing.org/1212> <https://fairsharing.org/4089>
<https://fairsharing.org/4798>

Standards

GENERAL INFORMATION

Moroccan Genetic Disease Database (MGDD)

doi 10.25504/FAIRsharing.fe48sc

Type Repository

Registry Database

Description The Moroccan Genetic Disease Database (MGDD) collect and document mutations and frequencies of polymorphisms reported in the Moroccan population. The information in the MGDD allow researchers and clinicians to find mutations associated to a given disease or gene of interest, and they can also find polymorphisms associated with susceptibility to a genetic disease or individual responses to pharmaceutical drugs or environmental factors.

Homepage <http://mgdd.pasteur.ma/index.php>

Year of Creation 2013

Maintainers [hcharoute](#)

Countries developing this resource [Morocco](#)

Subjects [Biomedical Science](#)

Domains [Mutation](#) [Genetic Polymorphism](#) [Genome-wide Association Study](#) [Genetic Disorder](#)

Taxonomic Range [Homo sapiens](#)

User Defined Tags N/A

[VIEW RELATION GRAPH](#)

FAIRsharing allows you to discover resources by country

<https://fairsharing.org/search?q=africa>

<https://fairsharing.org/1843> <https://fairsharing.org/2888>
<https://fairsharing.org/1879> <https://fairsharing.org/2977>
<https://fairsharing.org/2160> <https://fairsharing.org/3039>
<https://fairsharing.org/2250> <https://fairsharing.org/3044>
<https://fairsharing.org/2266> <https://fairsharing.org/3070>
<https://fairsharing.org/2461> <https://fairsharing.org/3092>
<https://fairsharing.org/2467> <https://fairsharing.org/3108>
<https://fairsharing.org/2468> <https://fairsharing.org/4387>
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Databases

<https://fairsharing.org/3355>
<https://fairsharing.org/3681>

Policies

<https://fairsharing.org/3> <https://fairsharing.org/1232>
<https://fairsharing.org/752> <https://fairsharing.org/1260>
<https://fairsharing.org/844> <https://fairsharing.org/1306>
<https://fairsharing.org/919> <https://fairsharing.org/1515>
<https://fairsharing.org/1090> <https://fairsharing.org/1520>
<https://fairsharing.org/1212> <https://fairsharing.org/4089>
<https://fairsharing.org/4798>

Standards

GENERAL INFORMATION

GENERAL INFORMATION

A minimum information framework the FAIR collection of earth and environmental science data with drones (sUAS MIF)

Awaiting DOI

Type

Registry

Description

Homepage

Year of Creation

Maintainers

Countries developing this resource

Subjects

Domains

Taxonomic Range

User Defined Tags

<https://doi.org/10.5281/zenodo.4124166>

2020

athomor

South Africa, United States

Environmental Science, Earth Science

Data Model

Not applicable

Drones, Rpas, Suas

[VIEW RELATION GRAPH](#)

FAIRsharing allows you to discover resources by country

<https://fairsharing.org/search?q=africa>

<https://fairsharing.org/1843> <https://fairsharing.org/2888>
<https://fairsharing.org/1879> <https://fairsharing.org/2977>
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<https://fairsharing.org/2470> <https://fairsharing.org/4635>
<https://fairsharing.org/2473> <https://fairsharing.org/3514>

Databases

<https://fairsharing.org/3355>
<https://fairsharing.org/3681>

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<https://fairsharing.org/1090> <https://fairsharing.org/1520>
<https://fairsharing.org/1212> <https://fairsharing.org/4089>
<https://fairsharing.org/4798>

Standards

GENERAL INFORMATION

African Academy of Sciences Open Research Data Guidelines for Authors (AAS Policy)

doi:10.25504/FAIRsharing.3703x3

Type: Journal

Registry: Policy

Description: This is a non-exhaustive list of databases, standards, and policies that have been approved for an AAS Open Research article.

Homepage: <https://aasopenresearch.org/for-authors/data-guidelines>

Year of Creation: 2018

Maintainers: AASOpenResearch

Countries developing this resource: Central African Republic, United Kingdom, European Union

Subjects: Life Science, Biomedical Science

Domains: Journal Article

Taxonomic Range: All

User Defined Tags: Metadata Standardization, Publishing, Researcher Data

[VIEW RELATION GRAPH](#)

FAIRsharing supports repository developers and other research-supporting organisations through increased **visibility** of their resources and the ability to **collect** related resources into their own 'slices' of FAIRsharing.

Organizations: dedicated pages

Organisation information for: Global Biodiversity Information Facility

Records related to this organisation  [FILTER RECORDS](#)

Name	Status	Relation	Grant	Actions
 SIB Colombia IPT - GBIF Colombia Repository		Maintains		
 World Register of Marine Species		Funds		
 Atlas of Living Australia IPT - GBIF Australia Repository		Maintains		
 GBIF Spain IPT - GBIF Spain Repository		Maintains		
 Canadensys IPT - GBIF Canadensys Repository		Maintains		
 Canadian Biodiversity Information Facility		Maintains		
 Minimum Information for Reusable Arthropod Abundance Data		Maintains		
 Biological Collections Ontology		Maintains		
 GBIF.org		Maintains		
 ChecklistBank		Funds		

 <https://ror.org/05fjyn938>

- These pages help **organizations** to show the **standards, databases** and **policies** they *maintain, fund, collaborate on, or are associated with*
- Integration with ROR repository for harmonization of display name of (relevant) organizations



want to know more?
→ **FAIRsharing Blog**
blog.fairsharing.org/?p=239
and
blog.fairsharing.org/?p=385

Organizations: dedicated pages, also listing users

Organisation information for: Global Biodiversity Information Facility

Records related to this organisation  [FILTER RECORDS](#)

Name	Status	Relation	Grant	Actions
 SIB Colombia IPT - GBIF Colombia Repository		Maintains		
 World Register of Marine Species		Funds		
 Atlas of Living Australia IPT - GBIF Australia Repository		Maintains		
 GBIF Spain IPT - GBIF Spain Repository		Maintains		
 Canadensys IPT - GBIF Canadensys Repository		Maintains		
 Canadian Biodiversity Information Facility		Maintains		
 Minimum Information for Reusable Arthropod Abundance Data		Maintains		
 Biological Collections Ontology		Maintains		
 GBIF.org		Maintains		
 ChecklistBank		Funds		

 <https://ror.org/05fjyn938>

Organisation pages can also also lists their **members**, and vice versa

User Profile for [kcopas@gbif.org](#)

Maintained Records

Name	Registry	Approved	Actions
 Biodiversity Community Integrated Knowledge Library	Collection		
 Global Biodiversity Information Facility	Repository		
 Catalogue of Life	Knowledgebase		

Organisations

Name	Types	Homepage
Global Biodiversity Information Facility (GBIF), Copenhagen, Denmark	Research institute	http://www.gbif.org/

fairsharing.org/users/5832

Collections: tailored views for education and promotion

Collections are branded pages that *group* selected **standards** and/or **repositories**. Initiatives and projects have created them for several purposes, e.g. to list resources:

EXAMPLES

Developed by the community



International Virtual Observatory Alliance (IVOA)
Maintainers [carviset](#)
Subjects [Astrophysics And Astronomy](#)

Collection URL: fairsharing.org/IVOA

Recommended by a community



RDA Covid-19 WG Resources (RDACovid19WG)
Maintainers [FAIRsharingTeam](#)
Subjects [Public Health](#)

Collection URL: fairsharing.org/RDACovid19WG

Developed by a SDO



cdisc
Maintainers [awhite](#)
Subjects [Biomedical Science](#) [Preclinical Studies](#)

Collection URL: fairsharing.org/CDISC

Mapped to each other

Crosswalk of most used metadata schemes and guidelines for metadata interoperability

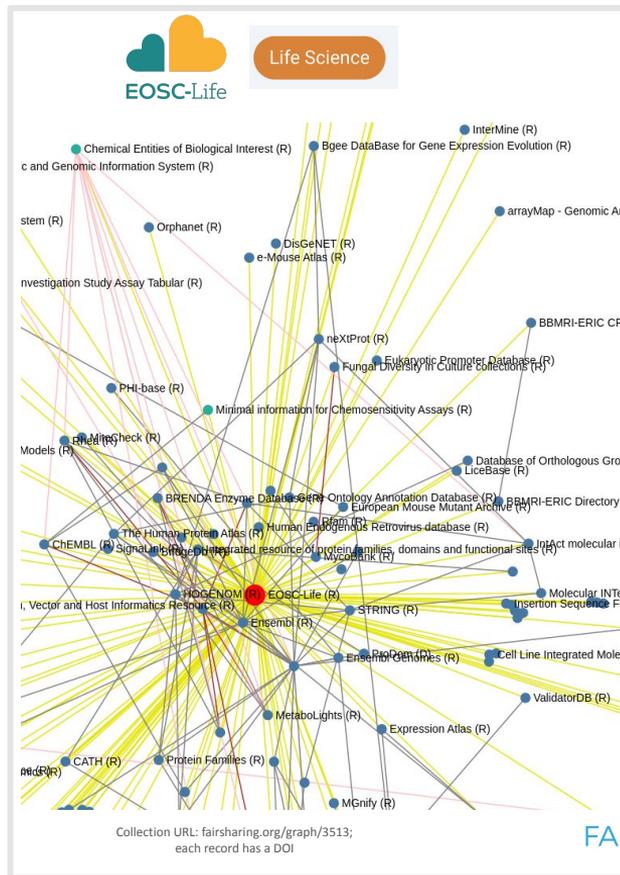
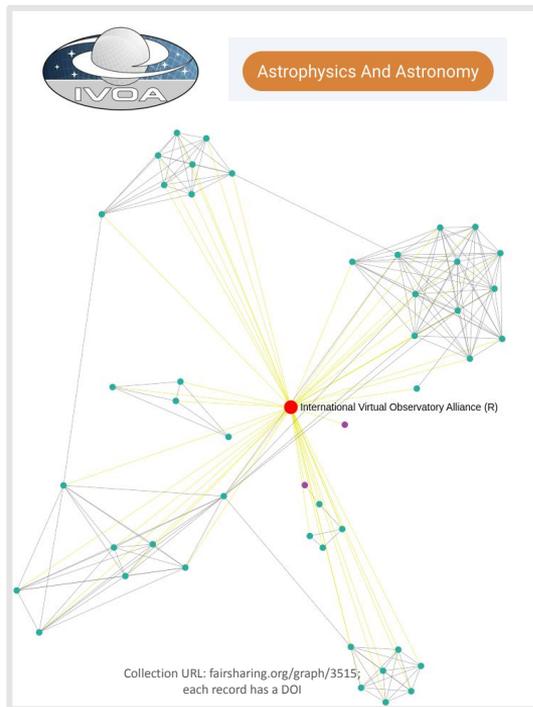


Maintainers ojstersek@uni-mb.si 
Subjects [Subject Agnostic](#)

Collection URL:
fairsharing.org/CrosswalkOfMostUsedMetadataSchemesAndGuidelines

FAIRsharing makes your resource discoverable to an entire ecosystem of resources

- Deprecates
- Recommends
- Collects
- Profiles
- Accepts
- Outputs
- Shares code with
- Shares data with
- Implements
- Extends
- Related to



The **standards**,
repositories and
policies each EOSC
Cluster uses or
endorses

Registry

COLLECTION

DATABASE

STANDARD

POLICY

Status (shown on mouseover)

READY

IN DEVELOPMENT

UNCERTAIN

DEPRECATED

Distance from centre

ONE HOP

TWO HOPS

THREE HOPS

Collections: evaluation and endorsement



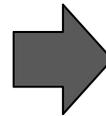
Paying it forward: How the neuroscience community builds on FAIRsharing to make digital objects more FAIR

In this guest blog post, INCF Director of Science and Training Mathew Abrams describes how the INCF makes use of FAIRsharing as part of the formal procedure it has in place for the evaluation and endorsement of community standards.

want to know more?

FAIRsharing Blog

blog.fairsharing.org/?p=483



GENERAL INFORMATION

INCf Endorsed standards

Type: Collection

Registry: Collection

Description: This collection contains standards that have completed INCF's formal standards endorsement process. INCF has implemented a formal procedure for evaluating and endorsing community standards and best practices in support of the FAIR principles. Our mission is to make neuroscience more open and FAIR, to ensure that research funds and efforts are well invested, and that neuroscientific findings are robust and replicable. Quality community standards are necessary to make FAIR resources and processes work, but too many neuroscience communities lack robust standards or have competing incompatible standards. The rapid development of new techniques also means that there is a continuous need for new and updated standards, and that old standards need an active developer and user community keeping them up to date. By endorsing standards, INCF wants to - Make it easy to find the best, most reliable standard appropriate for your research - Ensure recognition for community members investing their time and effort in standards

Organisations: International Neuroinformatics Coordinating Facility

Homepage: <http://incf.org>

Reference URL: <https://www.incfc.org/activities/standards-and-best-practices>

Maintainers: INCf_Mat

Contacts: Mathew Abrams, INCf Secretariat

Subjects: Neuroscience

Domains: FAIR

Taxonomic Range: Not applicable

User Defined Tags: Data Standards, Metadata Standard

VIEW RELATION GRAPH

How to cite this record

FAIRsharing.org: INCfEndorsed, INCf Endorsed standards, FAIRsharing ID: M/3539, Last Edited: Thursday, February 2nd 2023, 13:05, Last Editor: allyson

Record ID 3539 | Record created at Friday, April 26th 2019, 11:38 |

The following community curators have contributed to this record: [incf](#)

Record ID 3539 | Record created at Friday, April 26th 2019, 11:38 |

Collection URL: fairsharing.org/graph/3539;
each record has a DOI

FAIRsharing is a registry of standards, databases and policies. Add your resources to improve **visibility** and highlight its connectivity and **interoperability**.

What to add

The FAIRsharing Team curates and integrates **descriptions** of community resources such as standards and databases, progressively linking both to policies. Our curation team keeps track of every record, but resource developers are the experts. We encourage you to take ownership of your resources' records and help us keep your standard, database or policy description up to date. If we already describe your resource, [claim](#) and then [update](#) it as necessary. If your resource is missing, please keep reading to start a new record submission.

 <h3>Databases</h3>	 <h3>Standards</h3>	 <h3>Policies</h3>	 <h3>Collections</h3>
<p>Findable, accessible and organised collections of datasets, software, and other digital objects that can be browsed and downloaded. Please visit our documentation to learn more about the type of databases you can describe.</p>	<p>Requirements, specifications or guidelines that can be used for the description, interoperability, citation, sharing, publication, or preservation of all kinds of digital objects. Please visit our documentation to learn more about the type of standards you can describe.</p>	<p>Data policy statements implemented by an organisation such as a journal publisher, a project consortium, a funder or an institution. Please visit our documentation to learn more about the type of policies you can describe.</p>	<p>Groups of records spanning these three registries according to specific criteria (common standards, organisations or a particular journal's data policy). Please visit our documentation to learn more about collections.</p>



DE ES FR IT JP ZH

No datasets, please

- No files (excel, doc, csv, sql...), no data relating to an article publication:
 - The resource should be an organised collection of data and datasets rather than a single file.
 - The resource is findable. Users can access the database via an active website and the data is generally downloadable but not searchable, and therefore are not appropriate for FAIRsharing.
 - The resource is accessible. Irrespective of licence type, the resource is available to all users (no login required).
- Where should I store my dataset?
 - If you would like to find a home for your data, try browsing our complete [subject database](#) for your data type.
 - Alternatively, you could look at our collection of [Generalist Depositories](#) or browse all [subject-specific records](#), which may provide you with a location to store your data.

Get Started!

If you have not already done so, you may wish to **create an account**.

Any questions? Don't hesitate to **contact us** or to **consult our documentation**.

[ADD NEW RECORD](#)

How to Update a Record

We advise all maintainers to perform an annual "health check" of their records in addition to any *ad hoc* updates that might need doing. This section of our documentation takes you through editing each part of a FAIRsharing record, to help you complete your updates as quickly and as thoroughly as possible. Although our in-house curation team will check for any issues with the record and aim to keep it up to date, you are the expert on your resource, and therefore your contributions to the record are vital.

Remember, **keeping your record up to date is important**. The FAIRsharing community visits us to discover, select and use resources like yours, and having up-to-date information is vital for them to make an informed decision.

Updating a Record

To get started editing, ensure you are logged in and then choose **"Edit Record"** from your record's **Action Menu**

- Gaps in coverage of a domain.* More generally, you can assess the completeness and coverage of your domain in FAIRsharing. Is it complete? If yes, then work towards enriching the metadata in existing records. Is it incomplete? Then start adding new records!

ACTIONS ▾

- Edit record
- Request ownership
- Watch record
- View Relation Graph
- View record history
- Have a suggestion/question ?
- Review this record

Choose "Edit record" to start editing.

This will open up the Edit Interface for your record, such as this one shown here for the FAIRsharing record. Please note that the different portions of FAIRsharing records are represented via tabs in the Edit interface. This allows you to perform updates to your record in manageable-sized chunks, as you can work on and save the information in one tab before moving on to the next.

Creating a new record

Creating a new FAIRsharing record

Logo
Update this resource's logo:

Select File

Record Name Required

Abbreviation

Homepage Required

Year of creation

Countries

Registry type Required

Status

Description Required

Curator notes

Hidden if selected.

CREATE RECORD

Adding metadata to a record

For more information on editing FAIRsharing records, please see our [user documentation](#)

Edit Record - LSHTM Research Online (3108)

RELOAD DATA EXIT EDITING

GENERAL INFORMATION LICENCES & SUPPORT LINKS PUBLICATIONS ORGANISATIONS & GRANTS RELATIONS TO OTHER RECORDS ADDITIONAL INFO

Edit Relationships

Available records:

Refine search

Standard(s) Database(s)

- BRENDA tissue / enzyme source
Standard / Terminology Artefact R U →
- Logical Observation Identifier Names and Cod...
Standard / Terminology Artefact R U →
- Synthetic Biology Open Language Visual
Standard / Model And Format R U →
- Newick tree Format
Standard / Model And Format R U →
- BioModels Ontology
Standard / Terminology Artefact U U →
- Minimum Information about a Neuroscience I...
Standard / Reporting Guideline R U →
- Spider Anatomy Ontology
Standard / Terminology Artefact R U →
- Material Element component of the SWEET on...
Standard / Terminology Artefact D U →
- Minimal Anatomical Terminology
Standard / Terminology Artefact D U →
- Subcellular Anatomy Ontology
Standard / Terminology Artefact D U →
- Habronattus Courtship Ontology
Standard / Terminology Artefact D U →

Associated records (3)

Search through existing associations names

Standard(s) Database(s)

- IMPLEMENTS -
Electronic Thesis Online Service UKETD_DC Schema
Standard / Model And Format U U →
- IMPLEMENTS -
Dublin Core Metadata Element Set
Standard / Terminology Artefact R U →
- IMPLEMENTS -
Metadata Object Description Schema
Standard / Model And Format R U →

SAVE AND CONTINUE SAVE AND EXIT

FAIRsharing exposes the metadata around standards, databases and policies to both **humans** and **machines** in alignment with the FAIR principles.

Powering 3rd party tools

A growing number of tools and services access FAIRsharing API, and use it for **look-up, selection** and **content retrieval** for **standards** and **repositories** in:

- creation of data management plans
- enrichment of guidance and training material
- assessment of FAIRness



 FAIR Metrics and Data Quality Task Force

FAIR Assessment Tools: Towards an “Apples to Apples” Comparisons

 Wilkinson, Mark D;  Sansone, Susanna-Assunta;  Grootveld Marjan;  Nordling, Josefine;  Dennis, Richard;  Hecker, David

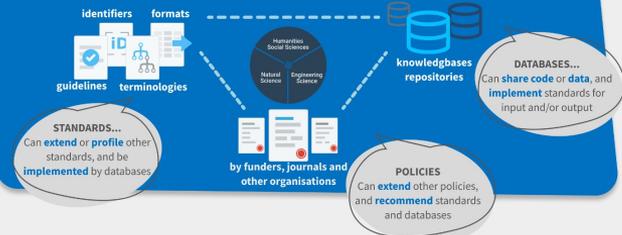
doi.org/10.5281/zenodo.7463421

FAIRsharing supports, and is supported by, its user community.

FAIRsharing in a nutshell

Standards, databases and data policies across all disciplines for all users

FAIRsharing provides curated descriptions and network graphs of the relationships among (meta)data* **standards**, the **databases** that implement them, and the **policies** that recommend them.



FAIRsharing for all: user groups

JOURNAL PUBLISHERS

Create and maintain an interrelated list of citable standards, databases and repositories to recommend to your authors, users or their community, and revise this recommendation over time



LIBRARIANS/TRAINERS

Use FAIRsharing to provide a foundation on which to create or enrich educational lectures, training and teaching material, and to plug into data management planning tools



DEVELOPERS AND CURATORS

Increase the discoverability and adoption of your resource by adding it in FAIRsharing: if you are a tool developer, access FAIRsharing content via its API to power your system



SOCIETIES AND ALLIANCES

Raise awareness around standards, databases, repositories and data policies... as well as mobilise your community to take action to promote the registration, use and citation of key resources



FUNDERS

Recommend FAIRsharing to your awardees to inform the development of their data management plan, and select the appropriate resources to recommend in your data policies



RESEARCHERS

Identify and cite the standards, databases or repositories that exist for your discipline when creating a data management plan, releasing data or submitting a manuscript to a journal

* data and metadata for datasets, software, materials and other digital objects

FAIRsharing
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Cite this: 10.5281/zenodo.8191958

Allyson Lister 0000-0002-7702-4495
Susanna-Assunta Sansone 0000-0001-5306-5690

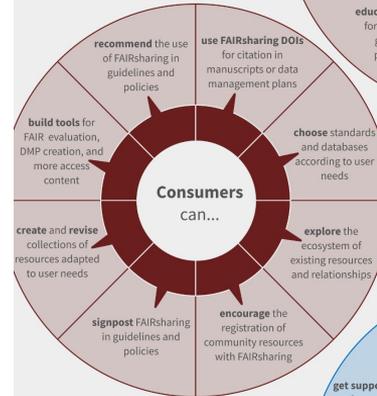
Find more at
fairsharing.org/educational

FAIRsharing.org
standards, databases, policies

Users interact with FAIRsharing as:

Consumers to discover, select and use relevant resources with confidence and/or

Producers to make their resources more visible, more widely adopted and cited



FAIRsharing enacts the **FAIR Principles** by promoting the value and the use of (meta)data standards, databases and policies, which are essential pillars of the research life cycle

FAIRsharing
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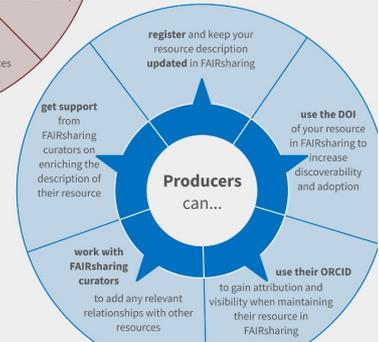
Cite this: 10.5281/zenodo.8191958

Allyson Lister 0000-0002-7702-4495
Susanna-Assunta Sansone 0000-0001-5306-5690

Find more at
fairsharing.org/educational



FAIRsharing provides **humans** and **tools** with access to *trustworthy content* to support and enable data management tasks



FAIRsharing.org Educational

CC BY-SA 4.0 International

<https://fairsharing.org/educational>

What can you do with FAIRsharing?

- **Discover databases, standards, policies** relevant to your domain
- **Register your standards, databases and policies with FAIRsharing**, as recommended by the DCC, the RDA and EOSC
- **Volunteer as a FAIRsharing Community Champion**, enriching content to ensure your stakeholders understand your policies
- **Highlight FAIRsharing in your data policies and DMPs**

What do you want to do with FAIRsharing?

- What features **would you like**?
 - **Map** selection of resources by country - *ongoing*
 - **Advanced** search - *ongoing*
 - **Assistant** - *ongoing* - what use case do you have for it?
 - What else?

FAIRsharing is manually curated by our in-house curation team, our **Maintainers**, and our **Community Champions**

FAIRsharing Community Champion Programme

Domain experts, from RDA, EOSC clusters and worldwide, who

- Help **curate content**, standards, repositories and policies relevant to their EOSC cluster, RDA group, research domain, or area of focus
- Contribute to **educational material** for the users
- Gain **expertise, networking** and **attribution** for their work, via ORCID

RDA/EOSC Future Domain Ambassadorships supported by



Supported by the Research Data Alliance through the RDA Open Calls as part of the EOSC Future project.



The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 101017536.

The following community curators have contributed to this record: kcopas@gbif.org 

FAIRsharing.org



Membership and service (1)

FAIRsharing.org: Oxford, GB

2022-01-01 to 2022-12-31 | FAIRsharing Community Curator (Biodiversity) 2022 (FAIRsharing.org) Service

URI: [FAIRsharing user page for kcopas@gbif.org](#)

URI: [FAIRsharing Community Curation Programme](#)

Source: FAIRsharing.org

want to know more?

FAIRsharing Blog

blog.fairsharing.org/?p=567

blog.fairsharing.org/?p=336

blog.fairsharing.org/?p=261

FAIRsharing.org  Educational

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Identifying and crediting users : integration with ORCID



GENERAL INFORMATION

Inter-university Consortium for Political and Social Research (ICPSR)

Year of Creation 1962

Maintainers jlyle

FAIRsharing.org

ORCID

Membership and service (1)

FAIRsharing.org: Oxford, GB

2022-01-01 to 2022-12-31 | FAIRsharing Community Curator (Biodiversity) 2022 (FAIRsharing.org) Service
URI: [FAIRsharing user page for kcopas@gbif.org](#)
URI: [FAIRsharing Community Curation Programme](#)

Source: FAIRsharing.org

- Login is enabled via ORCID
- FAIRsharing is now also an ORCID **trusted partner**, via support of the Bodleian Libraries
 - This allows us to push users' contributions, as maintainer or curator of resources, to their ORCID profile
 - Building incentives and visible credit!



FAIRsharing Community Champion Programme



Opportunities to connect with each other at conferences and other events, to be part of a community

E.g. the RDA 20th Plenary, Gothenburg, March 2023

Infographics and factsheets by our Champions



Series, focusing on:

- **Content**
- **Users**
- **Functionalities**
- **Behind the scenes**
- **Tips**

FAIRsharing for all

FAIRsharing for you: researchers
For the management and sharing of your data

FAIRsharing guides you to...

- use the right databases and standards to report your data*
- make your data more discoverable, citable and reusable
- write your Data Management Plan (DMP)

FAIRsharing supports you to:

- Find data sources** discovering databases, repositories, knowledgebases where you may find data of interest to your research
- Meet policy requirements** by helping you to select the right resources as required by funders, journal publishers, projects, institutions and other organisations

Preserve, share your data in a FAIR way

- Choose deposition resources** where your data is uniquely identified, according to your:
 - type of data (e.g., datasets, software, documents)
 - domain (generalistic or discipline specific),
 - access needs (open, partially open, controlled)
- Use appropriate standards** to describe and report your data (e.g., minimal information requirements, formats and terminologies) according to the database selected

Sharing richly and clearly described data makes your work more reusable by other researchers, giving you credit and visibility.

Reach out to your organisation's data stewards or librarians for help on good data management practices

* data and metadata for **datasets, software, materials and other digital objects**

Example of FAIRsharing record, DOI: [10.25504/FAIRsharing.132b10](https://doi.org/10.25504/FAIRsharing.132b10)

FAIRsharing
CC BY-SA 4.0 International

Cite this: [10.5281/zenodo.8186964](https://doi.org/10.5281/zenodo.8186964)
 Deborah Therpe 0000-0002-2307-8770
 Alyson Lister 0000-0002-7702-4495
 Susanna-Assunta Sansone 0000-0001-5306-5690

Find more at fairsharing.org/educational

fairsharing.org/educational#researchers

FAIRsharing.org
standards, databases, policies

Subject tags indicate the specific scientific significance, or domain, e.g., *Neuroscience, Linguistics*

Subject agnostic is used to describe standards that are suitable for all research areas

Domain tags indicate the specific relevance to technology or protocol, e.g., *magnetic resonance imaging, literature mining*

Taxonomy is used to classify organisms, where relevant

FAIRsharing displays the intended use of each database

FAIRsharing uses indicators to show the life-cycle status of each database

- Ready** when a resource is considered suitable for use
- In development** when a resource is being developed and may be used but may also be in a state of flux
- Deprecated** when the community no longer mandates its use. This status is curated jointly with an explanation and, where available, a link to the database that has superseded it, or been merged with it
- Uncertain** when curators cannot establish contact with the owners of a resource and believe a resource may have changed status

Examples

Collection of generalist repositories by the RDA Generalist Repository Comparison Chart Management Group
 List: fairsharing.org/3541
 Graph: fairsharing.org/graph/3541

A knowledgebase for *Astrophysics and Astronomy*: [10.25504/FAIRsharing.55faz2](https://doi.org/10.25504/FAIRsharing.55faz2)
 A repository that shares its codebase: [10.25504/FAIRsharing.12e1ss](https://doi.org/10.25504/FAIRsharing.12e1ss)
 A knowledgebase for *linguistics*: [10.25504/FAIRsharing.429b28](https://doi.org/10.25504/FAIRsharing.429b28)
 A *subject agnostic* repository: [10.25504/FAIRsharing.132b10](https://doi.org/10.25504/FAIRsharing.132b10)

Views of databases by type:
fairsharing.org/databases/repositories
fairsharing.org/databases/knowledgebases
fairsharing.org/databases/knowledgebases_and_repositories

Search databases using different options:
fairsharing.org/#search

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Cite this: [10.5281/zenodo.8186964](https://doi.org/10.5281/zenodo.8186964)
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Find more at fairsharing.org/educational

fairsharing.org/educational#databases

FAIRsharing Community Champion Programme

Community Champions

3264
edits

257
updated records

100
new records

**Since they
began in Autumn
2022*

Our **Maintainers** and **Community Champions** are busy updating across **all disciplines**, according to their needs and interests

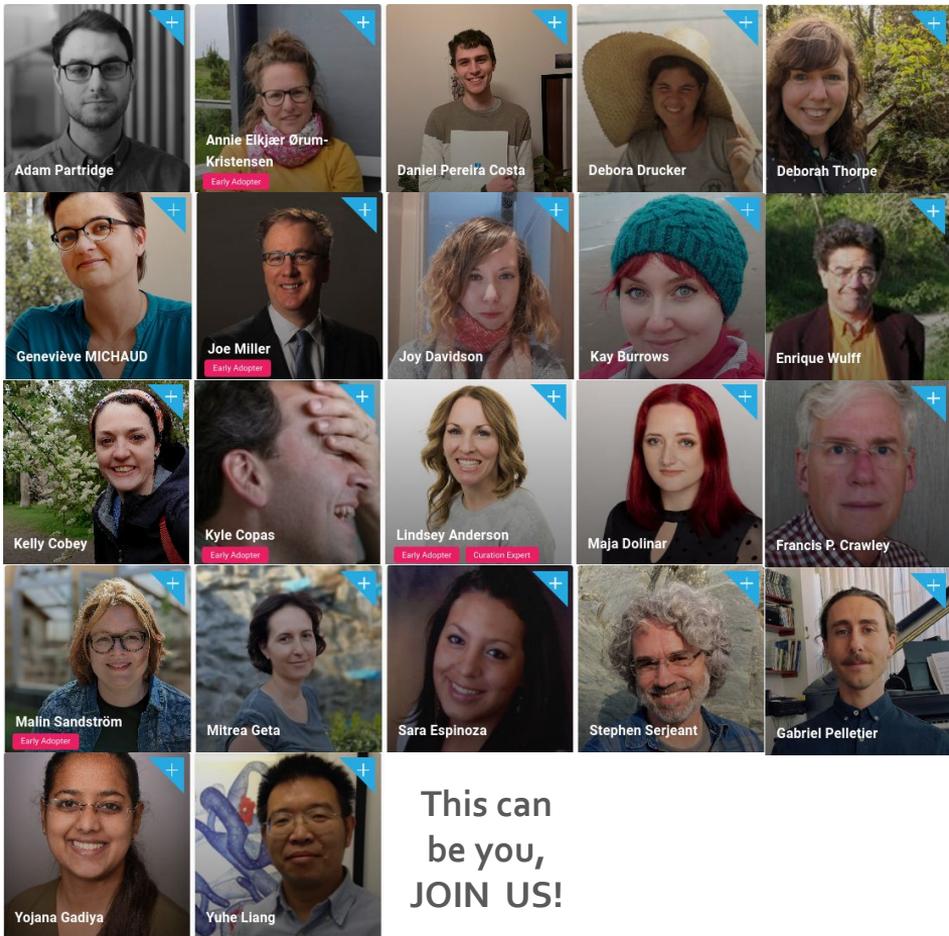
Record Maintainers

2987
edits

421
active maintainers

**Since our new
site went live in
October 2021*

FAIRsharing Community Champion Programme



This can
be you,
JOIN US!

- A thriving community of domain and discipline experts who:
1. **act as advocates** to promote the value of standards, databases and policies for digital objects (incl. data, software).
 2. **create educational material** describing these resources helping researchers and other stakeholders to find, use and adopt them.
 3. **enrich the content** of FAIRsharing, adding and enhancing the description and discoverability of these resources.

ORCID

Membership and service (1)

FAIRsharing.org: Oxford, GB

2022-01-01 to 2022-12-31 | FAIRsharing Community Curator (Service)
URI: [FAIRsharing_user_page_for_kcopas@gbif.org](#)
URI: [FAIRsharing_Community_Curation_Programme](#)

Source: FAIRsharing.org

The following community curators have contributed to this record:

kcopas@gbif.org  jmiller@gbif.org 

Thank you!



Stakeholder Advisors

- **Amye Kenall**, Research Square
- **Adam Leary**, Oxford University Press
- **Catriona MacCallum**, Hindawi
- **Dagmar Meyer**, ERC, Executive Agency
- **Dominic Fripp**, JISC
- **Emma Ganley**, Protocols.io
- **Geraldine Clement-Stoneham**, Medical Research Council
- **Helena Cousijn**, DataCite
- **Imma Subirats**, FAO of the United Nations
- **Kiera McNiece**, Cambridge University Press
- **Lauren Cadwallader**, PLoS
- **Lorenzo Feri**, Elsevier
- **Luiz Olavo Bonino**, GO-FAIR
- **Mark Leggott**, Digital Research Alliance of Canada
- **Marta Teperek**, Open Science NL
- **Michael Ball**, Medical Research Council
- **Mike Huerta**, NIH National Library of Medicine
- **Nick Everitt** and **Matthew Cannon**, Taylor and Francis
- **Rebecca Grant**, F1000
- **Richard Brown**, BBSRC UKRI
- **Sarah Callaghan**, Research Strategy & Policy Unit, University of Oxford
- **Sarah Stewart**, Bodleian Libraries, University of Oxford
- **Scott Edmunds**, GigaScience, Oxford University Press
- **Simon Hodson**, CODATA
- **Sowmya Swaminathan**, Springer Nature
- **Theo Bloom**, British Medical Journal
- **Thomas Lemberger**, EMBO Press
- **Wei-Mun Chan**, eLife

Executive Advisors

- **David Carr**, Independent expert
- **Peter McQuilton**, (FAIRsharing Founding Member), GSK
- **Robert Hanisch**, NIST
- **Varsha Khodiyar**, Independent Expert

RDA FAIRsharing WG Chairs

- **Graham Smith**, Springer Nature
- **Holly Murray**, Health Data Research UK
- **Peter McQuilton**, GSK
- **Rebecca Grant**, F1000
- **Simon Hodson**, CODATA
- **Allyson Lister**, University of Oxford
- **Susanna-Assunta Sansone**, University of Oxford

Community Champions

fairsharing.org/community_champions/our_champions

fairsharing.org/communities#governance

WG

FAIRsharing Registry: Connecting data policies, standards and databases RDA WG

www.rd-alliance.org/group/fairsharing-registry-connecting-data-policies-standards-databases.html

Operational Team



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*Content and Community
Coordinator*



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Front End Manager



Delphine Dauga

Curation Manager



Prakhyat Gailani

Web Developer