

Fostering Institutional Collaboration through "Disciplinary Open Research Data Repositories" project

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Open Science Fair 2021

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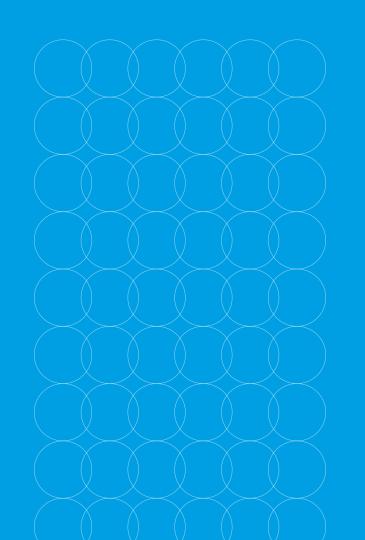




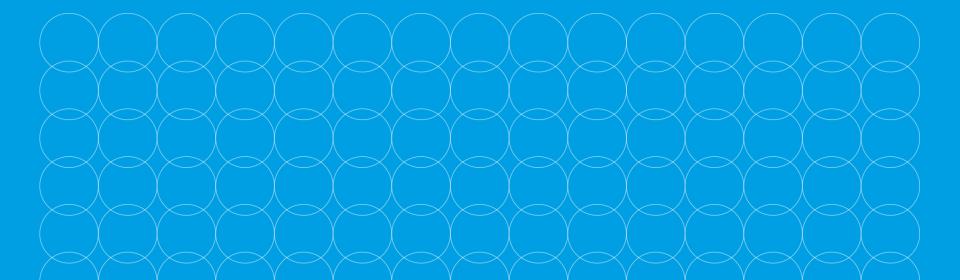








The project



Aims and objectives

- enhancing access to academic resources by making them available in open research data repositories
- improving the quality of shared data and metadata and facilitating their better use
- improving legal accessibility of already shared data

https://drodb.icm.edu.pl/english/









Institutional collaboration

Project leader

- University of Warsaw
 - Interdisciplinary Centre for Mathematical and Computational Modelling (ICM)
 - Robert Zajonc Institute for Social Studies (ISS)

Project partners

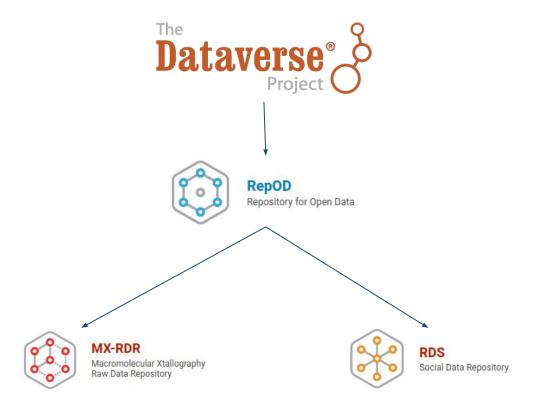
- Institute of Philosophy and Sociology Polish Academy of Sciences (IFiS PAN),
- Adam Mickiewicz University (UAM) responsible for crystallographic data







Data repositories













Repository for Open Data (RepOD)

repod.icm.edu.pl

- a publicly accessible general data repository
- open for everyone to use
- new version (previous one was created in 2015)















Main changes:

- o Polish and English interface,
- o licenses assigned to files,
- WCAG improvements,
- o code refactor.

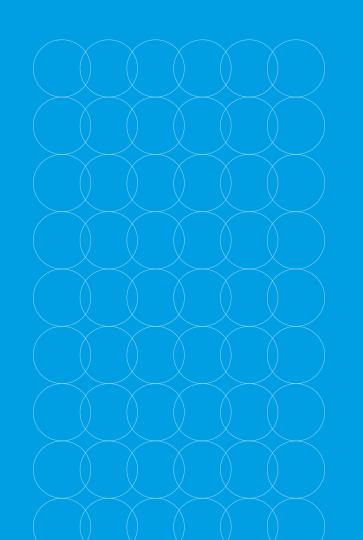














Social Data Repository (RDS)

rds.icm.edu.pl

- domain-specific repository for social science research data
- open for everyone to use



















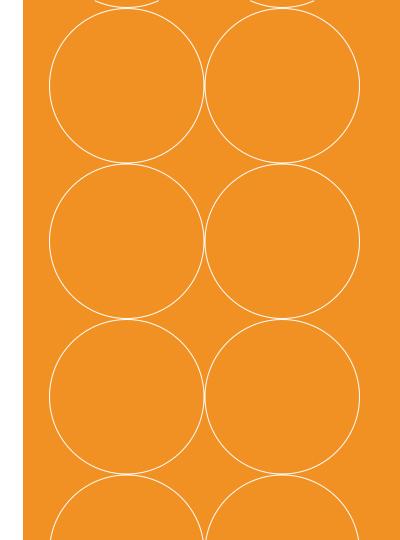
Main changes:

- o changes in social science metadata,
- o licenses assigned to files,
- o Restricted Access,
- o guestbooks.











Collections for archives



Archiwum Danych Jakościowych



IF FAN

Polskie Archiwum Danych Społecznych















Macromolecular Xtallography Raw Data Repository (MX-RDR)

mxrdr.icm.edu.pl

- domain-specific repository for raw diffraction data collected for macromolecular crystals
- open for everyone to use



























http://doi.org/10.17616/R31NJMYU



Main changes:

- macromolecular crystallography metadata,
- tools for creating datasets of crystallographic metadata by combining information extracted directly from diffraction images and obtained from a PDB deposit and/or user input.



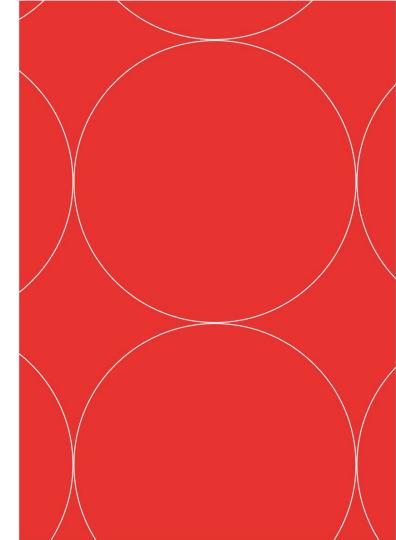












Macromolecular Xtallography Raw Data Repository MX-RDR

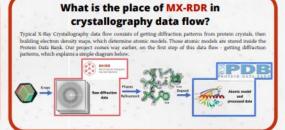
M. Gilski, P. Poniatowska, A. Rynkiewicz

Dept Crystallography, A Mickiewicz Univ & Center for Biocrystallographic Research, Pol Acad Sci, Poznan, Poland

What is MX-RDR?

The Macromolecular Xtallography Raw Data Repository (MX-RDR) was developed as a part of an EU funded project, coordinated by ICM UW, which aimed to create three open access discipline dedicated raw data repositories.

The MX-RDR repository, which is accessible via the webportal at https://mxxt/zem.edu/j.vsc designed to archive and provide access to raw diffraction data collected for macromolocular crystals. It includes tools for cruating datasets of crystallographic metadata by combining datasets of crystallographic metadata by combining information extracted directly from diffraction images and obtained from a PDB deposit and/or user input. Each data set is characterized by rich metadata, both to facilitate their management and long-term curation, and to allow effective scientific reuse. The resource can be searched using various criteria and all data are available for unrestricted access and download.



MX-RDR key features

OPersistent identifiers

All data sets receive a persistent and unique DOI (Digital Object identifier) that makes it easy to find and cite data.

Marriania

Possibility of placing the next, corrected or supplemented version of the data set.

Embarg

Possibility to set a period during which research data will not be made available to the public,

PAP

(Application Programming Interface). Ability to prepare scripts that use internal API functions.



What is a dataset and what could be stored inside it? A dataset in Datavorse is a container for your data, documentation, code, and the metadate describing this Dataset. To got it is simple terms on elastest is simple project with all additional information about it. Strands layer of a Breat in Datavors 40

https://drodb.icm.edu.pl/wp-content/uploads/2021/07/KK62-Poster-03.pdf



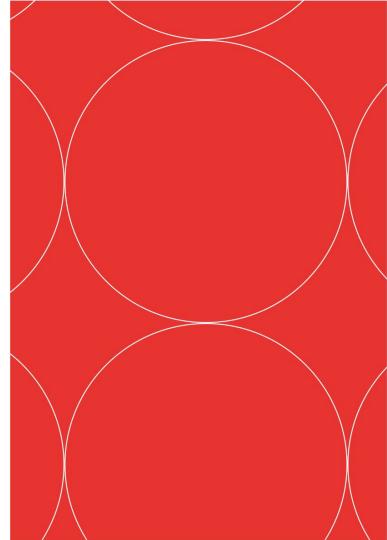












RDM training

Educational materials (in Polish) concerning:

- data usage,
- data sharing,
- legal issues.

Workshops (webinars) on research data management:

- general,
- domain specific,
 - developed and co-organized with partners.

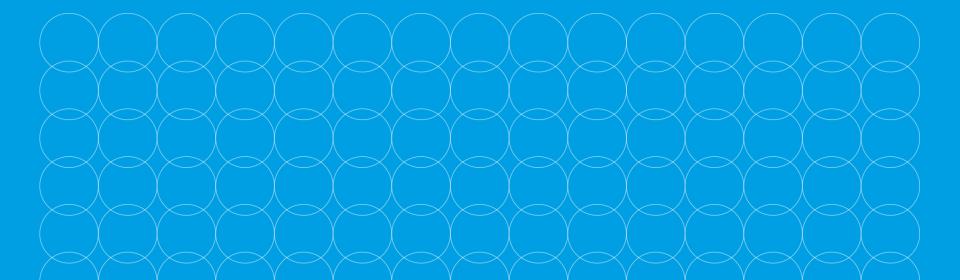








Beyond the project



Policy environment

National Science Centre

2019 - mandatory data management plans

2020 - Open Access Policy

- Plan S implementation
- Open research data

"Where possible, underlying data (basic data sets) related to the published articles should be placed in an open repository (...)"







Institutional collaboration

Other institutions

- institutional collections in the Repository for Open Data (general repository),
- single point of access to research data from various institutions,
- facilitates making research data FAIR,
- offered at no costs,
- currently: 11 agreements









Institutional collaboration

Training

- RDM training
- user guide for RepOD (webinars)

Open data repositories

- increasing the uptake of available services
- understanding research performing organisations' needs
 - support for collection managers
 - exchange of experience and good practice









Take-home messages

- continuity and consistency builds trust
- context matters: policy environment for (open) research
- a need for flexible and agile implementation of infrastructure solutions









Thank you!

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