

MANAGING YOUR RESEARCH DATA FROM CRADLE TO GRAVE

Faculty Information Exchange Series

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November 13, 2020



It's not just more

- Bureaucratic and administrative hoops

COVID-19 Research

- COVID-19 Data Portal (EU)

<https://www.covid19dataportal.org/the-european-covid-19-data-platform>

- COVID-19 OpenData Portal (US)

<https://ncats.nih.gov/expertise/covid19-open-data-portal>

- COVID-19 Resources

<https://cihr-irsc.gc.ca/e/52030.html>



RDM is about ...

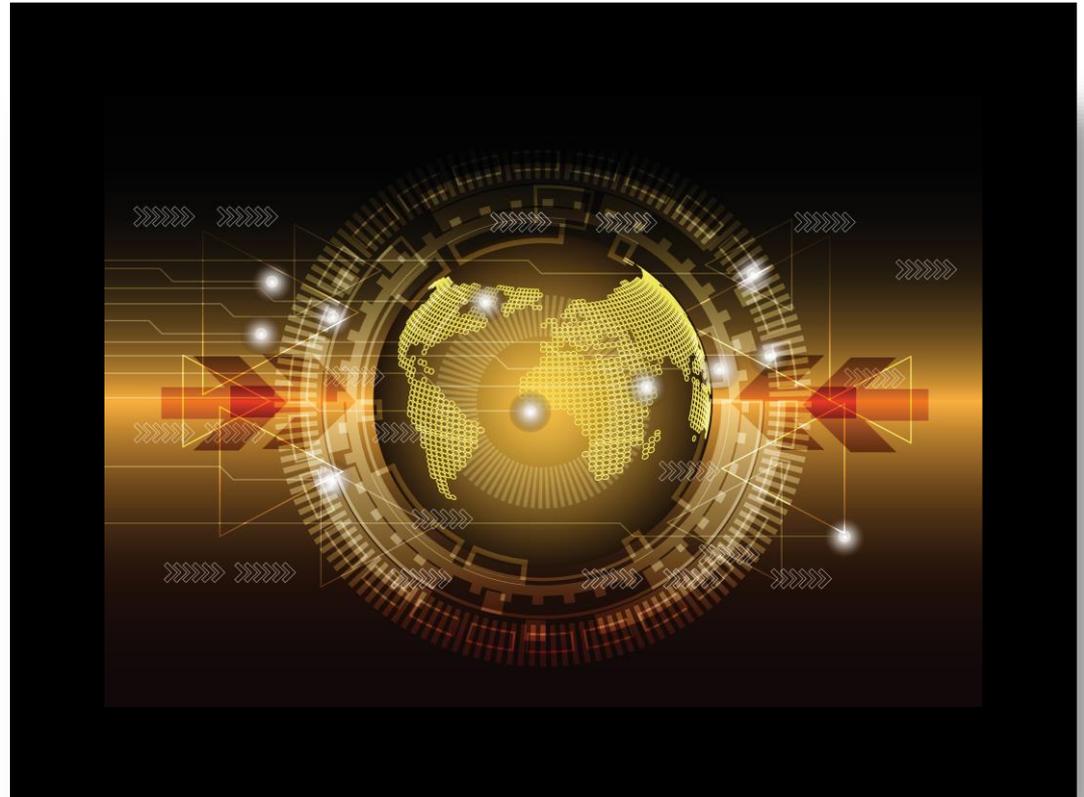
- Accountability
- Accelerating research
- Enhancing collaboration
- Encouraging HQP growth
- Research excellence



MITIGATING RISKS



GLOBAL INITIATIVES





FUNDER POLICIES - International

- UK – All federal funding agencies
- EU – Horizon2020 initiative
- US – NIH, NSF



FUNDER POLICIES - CANADA

- Tri-Agency
- Polar research
- Food from Thought
- Ontario Agri-Food Innovation Alliance



PUBLISHER REQUIREMENTS

- [Springer Nature](#)
- [Elsevier](#)

PLANNING





PLANNING

Data collection

Documentation & metadata

Storage & backup

Preservation

Sharing & reuse

Responsibilities & resources

Ethical & legal compliance

NATIONAL SUPPORT INITIATIVES

[NDRIO](#) – National Digital Research Infrastructure Organization

[Portage](#) – dedicated to the shared stewardship of research data

[FRDR](#) – Federated Research Data Repository and Portal



Training Guides

BRIEF GUIDES	v
PRIMERS	v
ONLINE TRAINING MODULES	v
IN-PERSON TRAINING	v
WEBINARS	v
TRAINING VIDEOS	v

More Resources

RDM DICTIONARIES AND GLOSSARIES	v
SELECTED EXTERNAL RESOURCES	v
ADDITIONAL EXPERT GROUP PUBLICATIONS	v
REPOSITORIES GUIDANCE	v
METADATA GUIDANCE	v
DMP EXEMPLARS	v
POSTER TEMPLATES	v

DMP Assistant is a bilingual tool for preparing data management plans (DMPs). The tool follows best practices in data stewardship and walks researchers step-by-step through key questions about data management.

- Step 1** Sign up with DMP Assistant
- Step 2** Sign in and select a template under Organizations. The Portage template is the default.
- Step 3** Answer the questions that are relevant to your work. Guidance and examples are provided.
- Step 4** Revisit the tool throughout your research to review or revise your answers.

Sign in



If you have an existing account with DMP Assistant or previous version of DMP Builder.

Sign up



New to DMP Assistant? Sign up today.

Please note that we are currently working on single sign-in authentication. For now, please create a new DMP Assistant account. You will have the option to link your DMP Assistant account to your campus ID when that feature becomes available.



LOCAL SUPPORT

Research Data Services – lib.research@uoguelph.ca

- Data Management Plan (DMP) support
- Research Data Management support
- Data repository services – mediated deposit
 - <https://dataverse.scholarsportal.info/dataverse/guelph>





LOCAL SUPPORT

- One-on-one consultations
 - Workshops – general and bespoke
 - Intro to Research Data Management
 - Creating Data Management Plans
 - Preparing data for deposit
 - Online support materials
 - <https://www.lib.uoguelph.ca/scholarship-publishing/research-data-management>
 - Referrals – CCS, OR...
- 

Today's Building Hours

Friday, November 13th: 11am - 7pm

[All service hours](#)

Scholarship & Publishing

Author Rights

Copyright

Track Your Research
Impact

The Atrium - Institutional
Repository Support

Open Scholarship Support

Open Access Journal Hosting

Digital Scholarship Support

Research Data ▾
Management

Data Management Planning

Documenting Your Work

Organizing Your Files

Preserving Your Data

**Sharing & Reusing Your
Data**

Sharing & Reusing Your Data

Plans for sharing and reusing data are an integral part of the Research Data Management Planning process.

Many funders as well as journal publishers have [policies](#) which encourage, expect, or require researchers to prepare and provide their data for sharing. This is particularly true of data produced through public funding.

The OECD declaration on access to research results, to which Canada is a signatory, sets out reasons for sharing research.

- [OECD Declaration on Access to Research Data from Public Funding](#)

Rationale for sharing data:

- Encourages scientific enquiry
- Promotes innovation
- Reduces duplication of research projects
- Leads to new collaborations
- Increases impact of research results
- Reduces costs of research in developing nations
- Encourages scrutiny, transparency and accountability
- Can be used in teaching

We are always happy to answer your questions and assist you further. [Contact us](#).

Preparing data for sharing

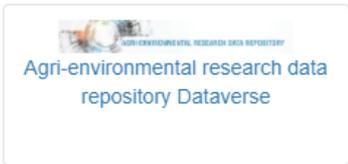
Preparation of data for sharing begins with the creation of a data management plan during the initial stages of the research project. Researchers should familiarize themselves with the policies of their funders as part of the planning process.

Factors to consider include:

- Legal and ethical implications
 - Will confidentiality of participants be compromised?
 - Will sensitive information be compromised?
 - Will it violate contractual agreements?
 - Will it violate licencing agreements?
 - Was sharing included in the informed consent agreement?
 - Will the data need to be anonymised prior to release?
 - Do you have consent from project partners?
 - Do you have the right to share secondary data?
- Intellectual property rights
 - Will you be commercializing or seeking patents?

 Chat with us

<https://www.lib.uoguelph.ca/scholarship-publishing/research-data-management/sharing-reusing-your-data>



Search this dataverse...

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Datasets (154)

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Dataverse Category

- Department (8)
Research Project (7)
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Research Group (1)

Publication Year

- 2018 (42)
2016 (39)
2019 (25)
2020 (25)
2017 (23)

More...

Author Name

- Hager, Heather A. (12)
University of Guelph, Ridgetown Campus (12)
Agricultural and Forest Meteorology Group.
Elora Research Station/Guelph Turfgrass
Institute (10)
Newman, Jonathan A. (10)

How to deposit research data in the Agri-environmental Research Data Repository or the University of Guelph Research Data Repository

Oct 21, 2020



Research & Scholarship, 2020, "How to deposit research data in the Agri-environmental Research Data Repository or the University of Guelph Research Data Repository", https://doi.org/10.5683/SP2/CPHFGA, Scholars Portal Dataverse, V1, UNF:6:5x2SwjbuYNre1ThFUY4PIA== [fileUNF]

Instructions and guidance materials on how to prepare your research data for sharing and preservation and how to deposit your research data in the Agri-environmental Research Data Repository or the University of Guelph Research Data Repository. If you have any questions or requir...

Can application of enhanced efficiency fertilizers at planting reduce N losses from grain corn production in Ontario?

Oct 2, 2020 - Project 3



Claudia Wagner-Riddle Lab, 2019, "Can application of enhanced efficiency fertilizers at planting reduce N losses from grain corn production in Ontario?", https://doi.org/10.5683/SP2/UOCUZE, Scholars Portal Dataverse, V3

This project evaluated a combination of Right Time and Right Product practices aimed at reducing these environmental nitrogen losses from corn. We addressed the following questions: 1) Can application of the Right Product at planting reduce environmental losses compared to the re...

Common bean (Phaseolus vulgaris) Honduran Panel (HON) genetic diversity analysis raw data, genotype description tables, raw phenotypic data, and single nucleotide polymorphism genotype data

Sep 22, 2020 - Department of Plant Agriculture Dataverse



Wilker, Jennifer; Pauls, K. Peter; Torkamaneh, Davoud; Gomez, Marvin; Ronas, J.C., 2020, "Common bean (Phaseolus vulgaris) Honduran Panel (HON) genetic diversity analysis raw data, genotype description tables, raw phenotypic data, and single nucleotide polymorphism genotype data", https://doi.org/10.5683/SP2/DJB7VY, Scholars Portal Dataverse, V1, UNF:6:jGVq6P34b9OXONHWAiVBbg== [fileUNF]



McLAUGHLIN LIBRARY

https://dataverse.scholarsportal.info/dataverse/guelph



LOCAL RESOURCES

- Library
 - Qualtrics software support
 - Data Skills workshops and consultation service
 - Author rights, copyright, and publishing support
- CCS
 - [Encryption services](#)
 - [Information security policies](#)
 - [Secondary data storage](#)

RESOURCES

- Tri-Agency Open Access Policy on Publications – CIHR data requirement
 - http://www.science.gc.ca/eic/site/063.nsf/eng/h_F6765465.html?OpenDocument
- Tri-Agency Statement of Principles on Digital Data Management
 - http://www.science.gc.ca/eic/site/063.nsf/eng/h_83F7624E.html
- (Draft) Tri-Agency Research Data Management Policy
 - http://www.science.gc.ca/eic/site/063.nsf/eng/h_97610.html
- Polar Knowledge Canada – Data Management Principles & Guidelines for Polar Research & Monitoring in Canada
 - <https://www.canada.ca/en/polar-knowledge/publications/data-management-principles-and-guidelines-2017-may.html>

RESOURCES

- UKRI - 2018
 - <https://www.ukri.org/>
- Horizon2020
 - https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-dissemination_en.htm
- National Institutes of Health – Oct 29, 2020
 - <https://www.federalregister.gov/documents/2020/10/30/2020-23674/final-nih-policy-for-data-management-and-sharing-and-supplemental-information>
- National Science Foundation
 - <https://www.nsf.gov/bfa/dias/policy/dmp.jsp>



RESOURCES

- Berlin Declaration
 - <https://openaccess.mpg.de/Berlin-Declaration>
- OECD Declaration on Access to Research Data from Public Funding in 2004
 - <https://legalinstruments.oecd.org/public/doc/157/157.en.pdf>
- Roadmap for Open Science
 - http://science.gc.ca/eic/site/063.nsf/eng/h_97992.html