

DAY 2 DAY DATA MANAGEMENT COURSE

FOR LIFE SCIENCES





DAY 2 DAY DATA MANAGEMENT COURSE FOR LIFE SCIENCES

Resources for Research Data Management

Jorge Oliveira

Introduction | BioData.pt

- Portuguese distributed infrastructure for biological data and the Portuguese
 ELIXIR node
- Non-for-profit private association of 12 R&I organizations.



biodata.pt/about







Outline

RDMkit

- RDMkit
- Data Management Portal
- Data Stewardship Wizard
- Electronic Lab Notebooks
- FAIRSharing













RDM (https://rdmkit.elixir-europe.org/)

- Created in ELIXIR-CONVERGE Project by European Experts
- The Research Data Management toolkit for Life Sciences
- **Best practices and guidelines** to help you make your data FAIR:
 - Findable
 - Accessible
 - Interoperable
 - Reusable





Browse all topics by



Data life cycle

Start here to get an overview of research data management based on stages in the data life cycle.



Your role

Identify your role in research data management, find data management resources relevant for you, and information to help you progress in your career path.



Your domain

Learn about data management tasks that affect your domain or research community, and the solutions adopted to address them.



Your tasks

Find guidelines and solutions for tackling common data management tasks.



Tool assembly

Find concrete combinations of tools and resources assembled into an ecosystem for research data management.



National resources

Find pointers to country specific information resources and national research data management practices.



All tools and resources

Browse the RDMkit's catalogue of tools and resources for research data management.



All training resources

Browse all training resources mentioned in RDMkit pages.











Data Life Cycle

- Descriptions
- Specific considerations
- Links to tasks
- Links to training materials
- Links to DSW







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Institutional policies on research data in Portugal

- Centre of Marine Sciences (CCMAR)
- Instituto Gulbenkian de Ciência (IGC)

Funders

• Fundação para a Ciência e Tecnologia (FCT)

RDMkit

Spain

Finland

France

Italy

Netherlands

Norway

Portugal

Sweden

Switzerland

United Kingdom

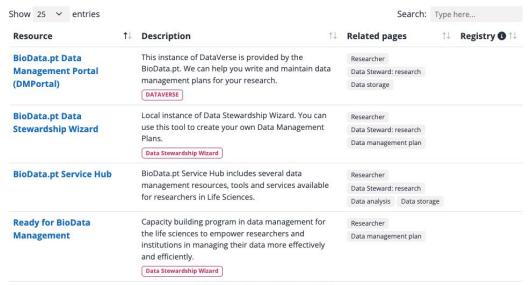
All tools and resources

All training resources

Tools and resources

Tailored to users in Portugal

Developed and/or deployed by institutions and organisations in Portugal.









(https://dmportal.biodata.pt/)

Instance of DataVerse for Life Sciences Data



Open source research data repository software

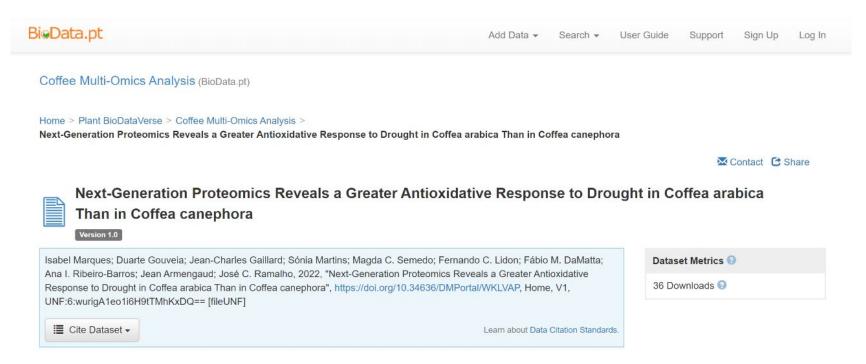




(https://dmportal.biodata.pt/)

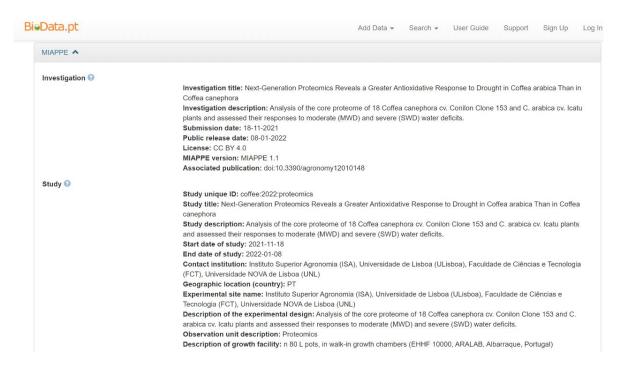
- Share, preserve, cite, explore, and analyze research data
- Persistent identifiers (DOI)





















Data Stewardship Wizard

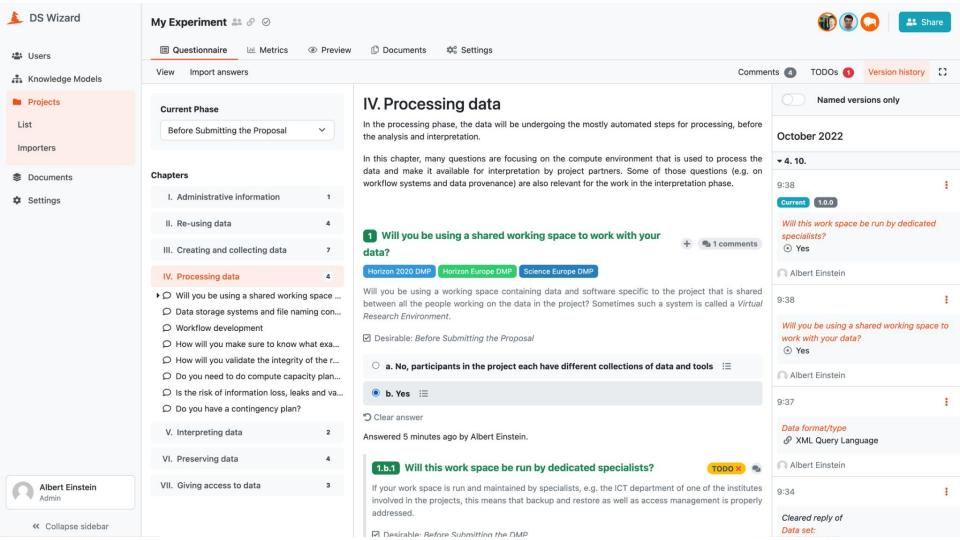


(https://biodata-pt.ds-wizard.org/)

- Guided tool to create Data Management Plans
- Real-time Collaborative Support
- Templates (H2020, Science Europe, RDA-machine-actionable and others)
- Developed by ELIXIR and trusted by thousands of people worldwide
- Made with FAIR in mind







FAIR Guidance



Will you need consent for any newly collected personal data? 🖶 🕛 a. No, We do not collect any new personal data Reusability b. No, our work on personal data can be done using another legal base \equiv c. Yes, we will collect consent for our specific use of the data Reusability d. Yes, we will collect consent for our use as well as reuse of the data





FAIR Metrics



Metric	Measure	
Findability	0.70	
Accessibility	0.22	
Reusability	1.00	
Good DMP Practice	0.67	
Openness	0.69	





Electronic Lab Notebooks

- Digital equivalent of Lab Notebook
- Register protocols, results, observations, notes, and other data



Advantages of Electronic Lab Notebooks

- Information is easy to search, copy, and archive.
- Experiments can be linked to samples and filed with little effort.
- Data can be shared simply.
- No more wasted paper and notes written in handwriting that no one can decipher.





Electronic Lab Notebooks

(https://elab.biodata.pt/)

- Free and open source
- Designed by researchers, for researchers, with usability in mind.





eLabFTW

FAIRSharing (https://fairsharing.org/)

Curated, informative and educational resource on:

- data and metadata standards
- databases
- data policies.







Resources Summary

RDMkit	Guidelines, links, good starting place
Data Management Portal	Deposit, annotate, share and publish data
Data Stewardship Wizard	Create Data Management Plans
Electronic Lab Notebooks	Register protocols, results, observations, notes, and other data
https://fairsharing.org/	data and metadata standards, databases, data policies





Other resources







Other resources

TOOLS & SERVICES







BioData.pt Service Hub







If you still feel lost...

Data Management Services



Project Data Management

We carry out data management planning and data management activities of research projects or project applications, in a package that can include any of the following components, as required:

- Data Management Plan draft/consulting
- Data storage (with access to Data Management Portal)
- Data curation/annotation
- Data Management Plan execution (e.g. data publication after project is complete)
- Training
- Electronic Case Report Forms (eCRFs)



Data Management Portal

An online platform for data management and publication.

You can access the portal here and register for free.



Ready for BioData Management

Capacity building programme to empower researchers in Data Management, which includes a range of training offers:

Lectures

- Introduction to Data Management in Science
- Demystifying Data Management Plans

Workshops

Introduction to Data Management Plans

Courses

- Advanced Data Management Plans
- Day-to-day Data Management

You can consult the Ready for BioData Management website for more information and check BioData.pt events for regular courses or request a course to be delivered to your organization.







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Thank you

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Acknowledgements

• ELIXIR Implementation Study "Impact evaluation at Node-level - getting it done"

• ELIXIR-CONVERGE Project "Connect and align ELIXIR Nodes to deliver sustainable FAIR life-science data management services"



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FOR LIFE SCIENCES

Organization:

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