Good practices and challenges for sharing multidisciplinary scientific data: how the QUAMPO project fits into the FAIR and open science movement?

Poster · June 2022

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Good practices and challenges for sharing multidisciplinary scientific data: how the QUAMPO project fits into the FAIR and open science movement?

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QUAMPO

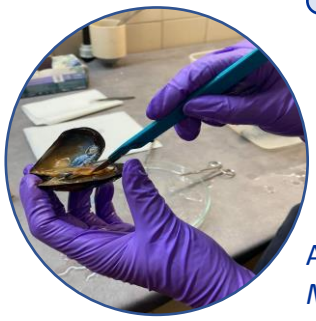
MINISTÈRE DE L'AGRICULTURE ET DE L'ALIMENTATION
MINISTÈRE DE LA TRANSITION ÉCOLOGIQUE
MINISTÈRE DE LA MER
UNION EUROPÉENNE

EOSC-Life
erinha
European Research Infrastructure on Highly Pathogenic Agents
LIENSs
cnrs
STARESO

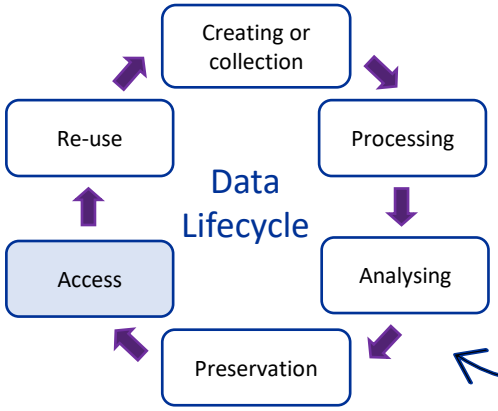
- QUAMPO: Multi-biomarkers approach to define the ecological status of Corsican ports
- Relied on a set of practices and faced number of challenges in order to share FAIR and open science data

Objective: offers the managers and the scientific community the first, to our knowledge, completely open database on marine biomarkers

Take home message: international and national outreach of the database by its opening to other monitoring projects



Analysis of a specimen of *Mytilus galloprovincialis*



Open database

Challenges encountered:

- Opening of not-FAIR data
- Making FAIR and public data originally made for internal use
- Create a base able to host other similar projects
- Accessibility of private data

Solutions:

- Curation (cleaning + enhancement) of data
- Universal variable naming
- Adding some data from the QUALIPERTUIS project of the LIENSs
- Data "as open as possible, as closed as necessary"

Data dictionary

Challenges encountered:

- Difference of vocabularies in a multidisciplinary project
- Changing protocols during an experimental project

Solutions:

- Use of the Darwin Core, of ontologies and of Skos
- Use or creation of DOIs

ECHA EUROPEAN CHEMICALS AGENCY
PubChem
W3C Semantic Web
UKRI Natural Environment Research Council

Data paper

Challenges encountered:

- Collaboration of a large and geographically distant team

Solutions:

- Paper sprint: collaborative method of writing an article

References

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