Supports for imaging projects toward Open Science at AuBi platform
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To cite this version:
Mateo Hiriart, David Grimbichler, Laurent Bouri, Pierre Pouchin, Sophie Desset, et al.. Supports for imaging projects toward Open Science at AuBi platform. JOBIM, Jul 2022, Rennes, France. hal-03716079

HAL Id: hal-03716079
https://hal.uca.fr/hal-03716079
Submitted on 7 Jul 2022

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With the recent advances toward Open Science, data flows, tools and workflow analysis need to be orchestrated in order to help scientists to navigate easily through their datasets and adopt best practices around data project and the FAIR principles. For that, a web portal centered on OpenLink application is under test started since early 2022 at the AuBi platform with a special focus on imaging projects. More than 10 laboratories are associated to the AuBi platform and involved in plants, animals and micro-organisms research programs with, for example, NGS & TGS, Imaging, Molecular Dynamics and Intelligence Artificial axis.

Supports for imaging projects toward Open Science at AuBi platform

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Acknowledgments. A special thanks to Jessica Leyrit (BU UCA) and Melanie Rigal (DRED UCA) for their support and involvements in Open Data Unit.

** See Poster D4, *** See Poster N6

OpenLink**: A web application to keep track of data through project lifetime from DMP to dataCite

Vault is also an authentication backend to log user to Openlink. This allows e.g. LDAP or OIDC use with a single configuration.

Organize data from multiple analysis

FAIRisation

- Assistance to elaborate workflows (Galaxy, Snakemake, Jupyter Notebook …)
- Open-source tools development to improve imaging OMERO workflows (plugins, FIJI, NucleusJ …)
- Aggregating datasets (ISA model)
- Proposing guidelines in ontologies with standardized vocabulary (EDAM, OME, …)

Link to publication referencing systems

Integrating collaborations

- MaDPM4LS ***
- MuDiS4LS – IS1
- actions in line with the IFB roadmap 2022-25

Vault is integrated to Openlink in order to protect sensitive scientists’ credentials for each tool.

Openlink is organized by project using the ISA model (Investigation, Study, Assay). All data can be edited with API linked to tools in Openlink.

An unique entry point to DMP

donnees-recherche.bu@uca.fr

Support to DMP forms

Gérer, Ouvrir, Trouver, Obtenir les Données de l'Université Clermont Auvergne

Education to project FAIRisation

● GO-TO-DO (Research Data Gouv, Data project)

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Support to DMP forms

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