FAIRDOM User Meeting May 2022

https://fair-dom.org
https://fairdom-seek.org

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FAIRDOM

Bring together users of FAIRDOM-SEEK tools and services

Users

- Build a community forum
- Exchange experiences about the use of FAIRDOM-SEEK
- Start possible collaborations

Users and the FAIRDOM Consortium

- Feedback, suggestions, updates
- Highlight communication channels to work with and join the FAIRDOM team

Next meeting **17 Oct 2022 14:00 CET**

FAIRDOM

Today's Agenda

14:05 - FAIRDOM Introduction: features now and coming

14:20 - **Cyril Pommier,** INRA - Institut national de la recherche agronomique, France and ELIXIR-FR

SEEK for plant sciences, feedback on the use of a dedicated instance for the H2020 AGENT Project

14:40 - **Frank Meineke,** University of Leipzig, Germany

Leipzig Health Atlas

15:00 - **Jasper Koehorst,** Wageningen University, The Netherlands

WorkflowHub

15:20 - **Andrej Blejec,** National Institute of Biology, Ljubljana, Slovenia

Bulk uploading from pISA-tree to FAIRDOM using SEEK API and R package seekr

15:40 - Discussion

FAIRDOM
FAIR Asset Management for Projects

Organising | Sharing | Showcasing

Retaining | Reusing

People: Programmes, Projects, Profiles, Institutions

Experiments: Investigations, Studies, Assays

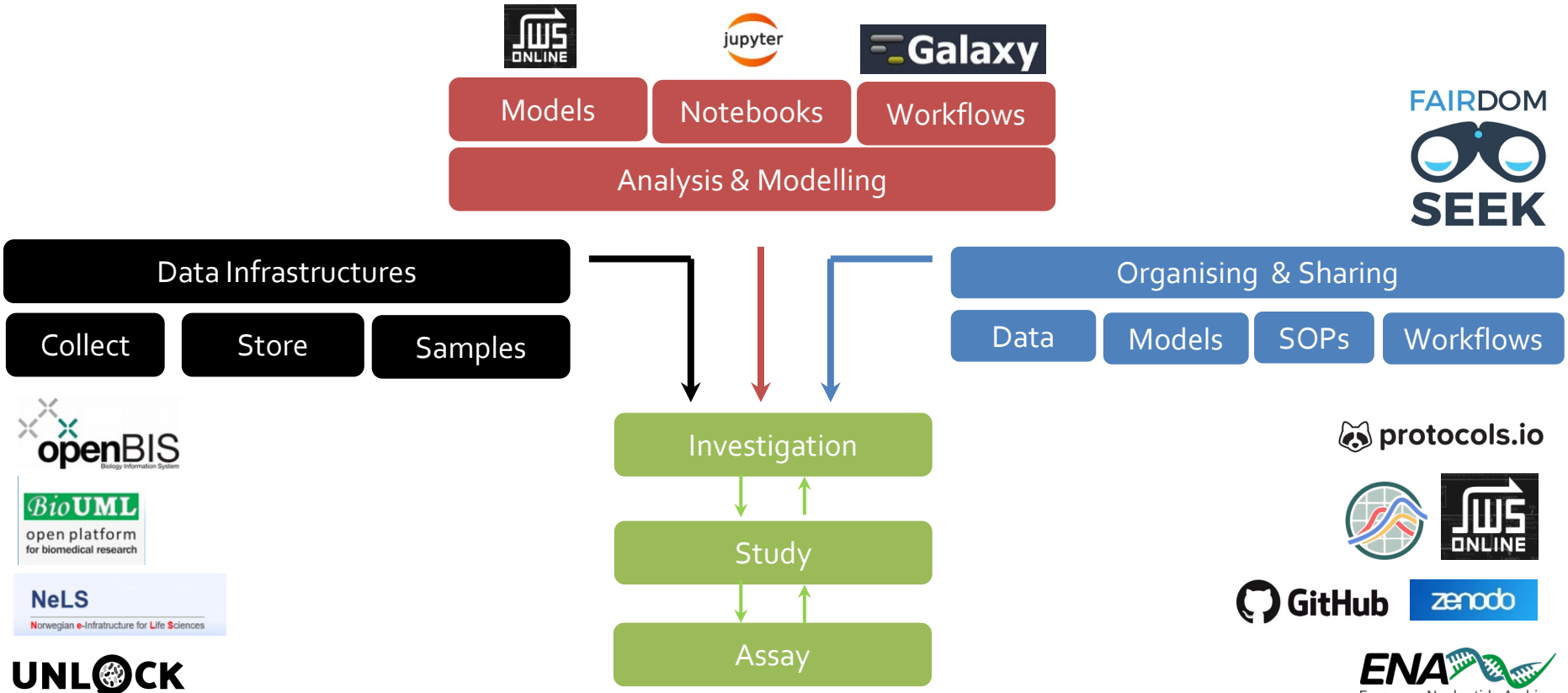
Assets: Data files, Models, SOPs, Publications, Documents, Workflows, Collections

Samples: Samples, Sample types, Organisms, Strains

FAIRDOM

FAIRDOM Framework

FAIR Asset Management for Projects



Metadata Management
customised and adapted for different Hubs

Open Source Software
FAIR Asset Management for Projects

RightField

SWS ONLINE

FAIRDOM SEEK

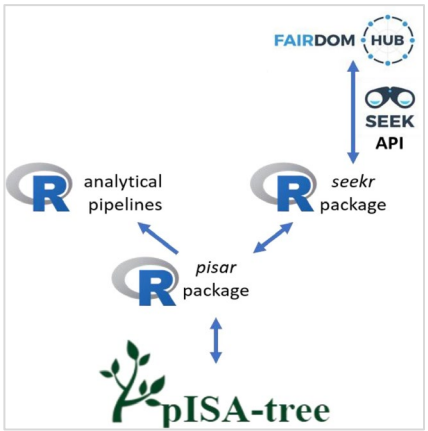
Build project Hubs

Customise features

HUB

Programmatic access

{ json:api }



doi: 10.1101/2021.11.18.468977

FAIRDOM

Project and Community Hubs
FAIR Asset Management at all scales of project

Public Hubs

FAIRDOM HUB

DATAHUB

275 projects

Project Hubs

UNIVERSITÄTSMEDIZIN GÖTTINGEN : UMG

cesgo

LiSyM
Liver Systems Medicine

Leipzig Health Atlas

IBISBA 1.0

140 Hubs

Specialised Hubs

WorkflowHub

EOSC-Life

230+ workflows
92 teams

Community Activities

Project Support

FAIRDOM

FAIRDOM Consortium

a collective of developers, users and projects

- Work together on the code bases and tools
- Support the public hubs and their own private hubs
- Partner in projects to use, sustain and support FAIRDOM

elixir BELGIUM

elixir GERMANY

elixir NORWAY

elixir UNITED KINGDOM

UNIVERSITEIT STELLENBOSCH UNIVERSITY

Universiteit Leiden

Criteria for joining?

Willingness to contribute.

FAIRDOM

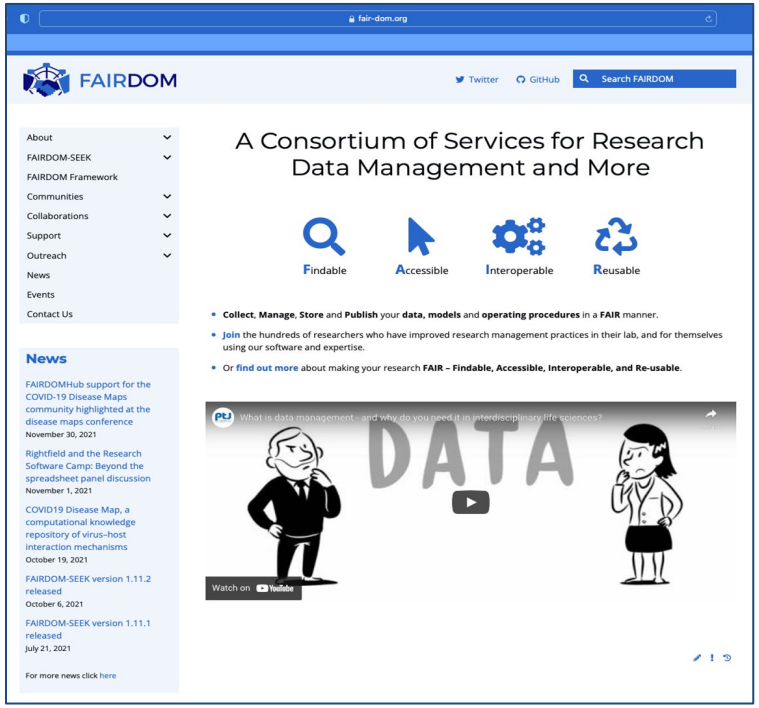
FAIRDOM Consortium
Ongoing Projects supporting FAIRDOM

EuroScienceGateway AgroServ EOSC4Cancer

Do you have a project that can contribute?

FAIRDOM

FAIRDOM promotion



Website refresh

https://fair-dom.org/

Node Service Features in RDMkit

https://rdmkit.elixir-europe.org/

COVID Disease Map Consortium

https://fairdomhub.org/projects/190

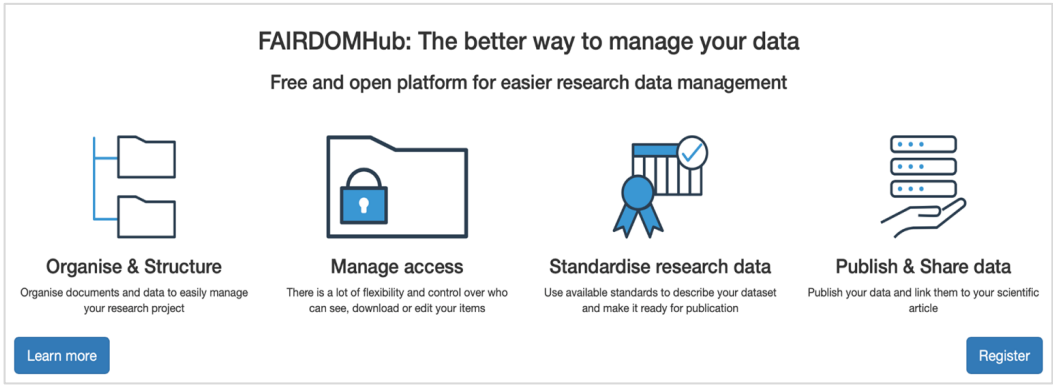
FAIRDOM-SEEK, version 1.12.0 released Today!

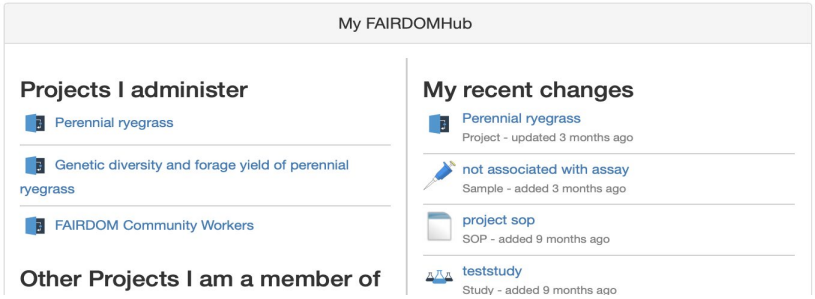
https://docs.seek4science.org/tech/releases/#version-1120

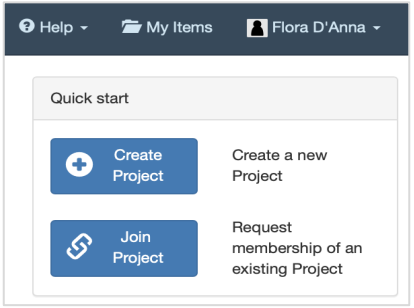
Feature Fest
SEEK Hub Customisations

Landing Page

- Hub Look
- Personalisations





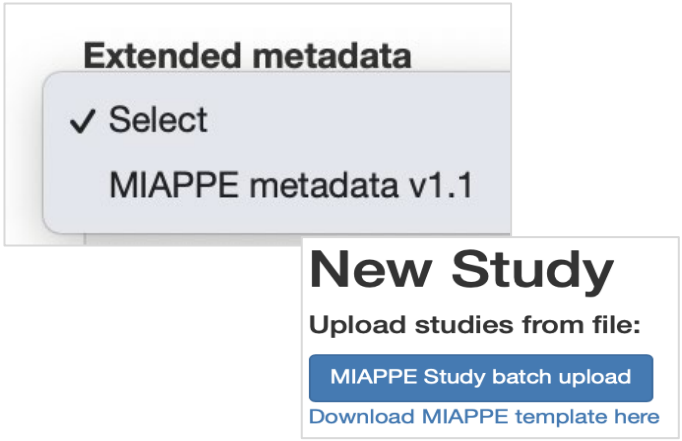


For more information
https://docs.seek4science.org/tech/releases/#version-1120

Feature Fest
Metadata enrichment

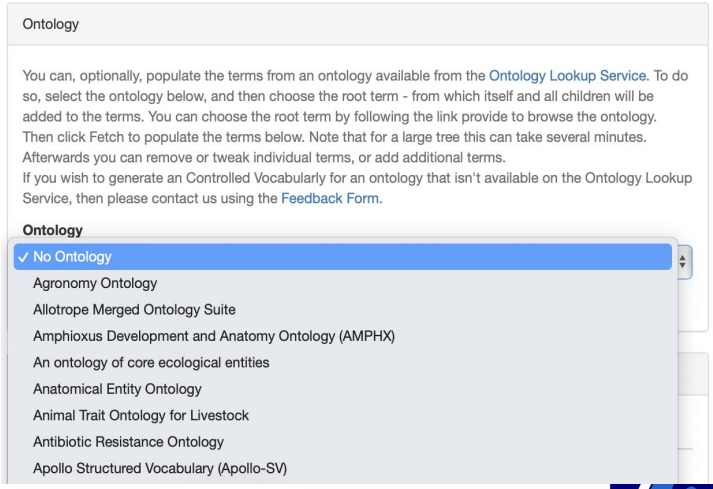
Custom/extended metadata support

- Specific standards, initially MIAPPE
- Other standards through configuration – currently on request for FAIRDOMHub



Integration of ontologies

- Browse ontologies available from EBI's Ontology Lookup Services and apply to attributes for samples and custom metadata

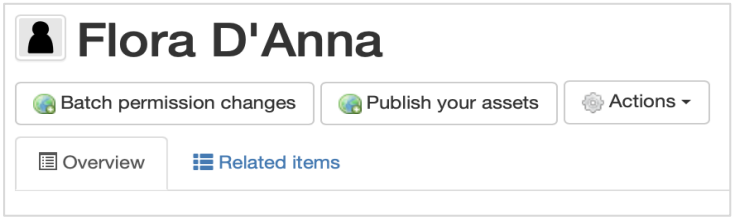


Feature Fest Improvements

Process Improvements

Batch sharing permissions

Creating and joining projects

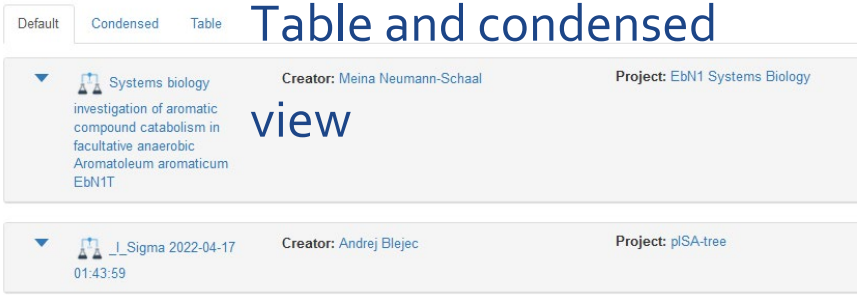


Description Improvements

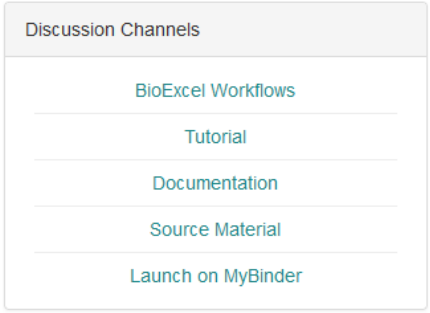
Describing the creators of items

Markdown formatting for descriptions

Table and condensed view



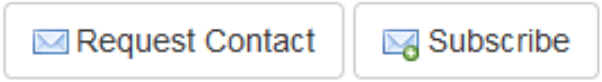
Dissemination Improvements



Enhanced support for publications

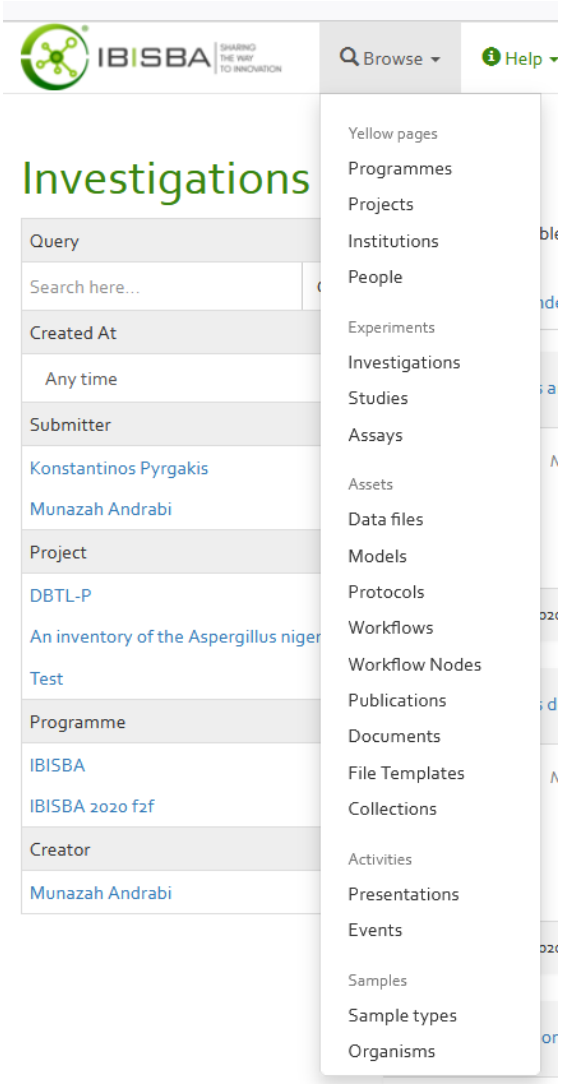
Discussion channel links

Comms channels



FAIRDOM

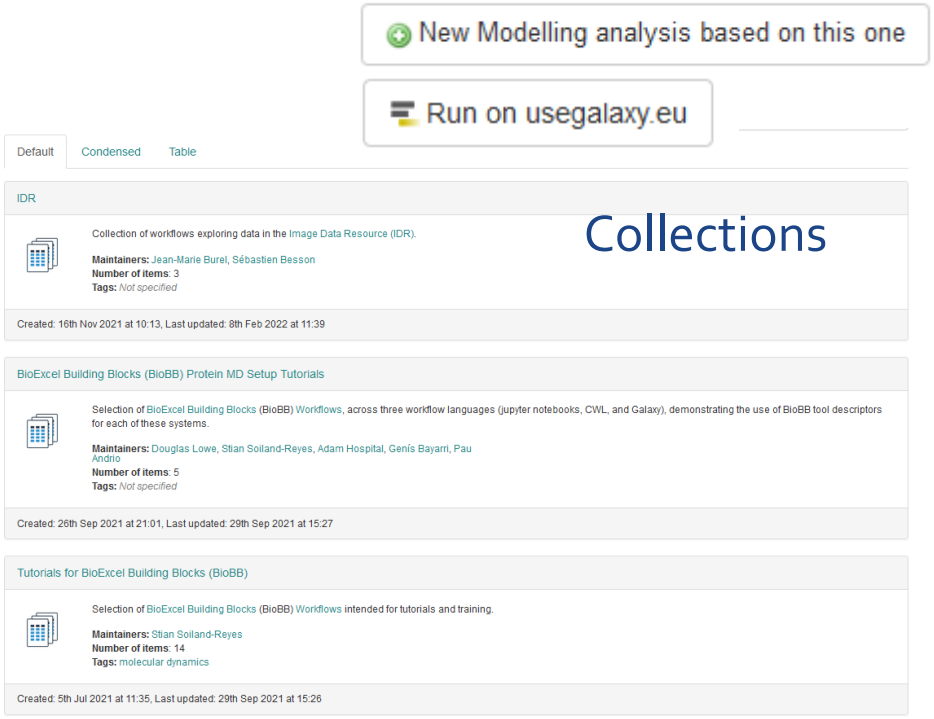
Feature Fest
Creating and Organising Content



New asset types – incl. workflows and their metadata and Collection

Explicit ordering of Investigation, Studies and Assays

Linking multiple SEEK samples



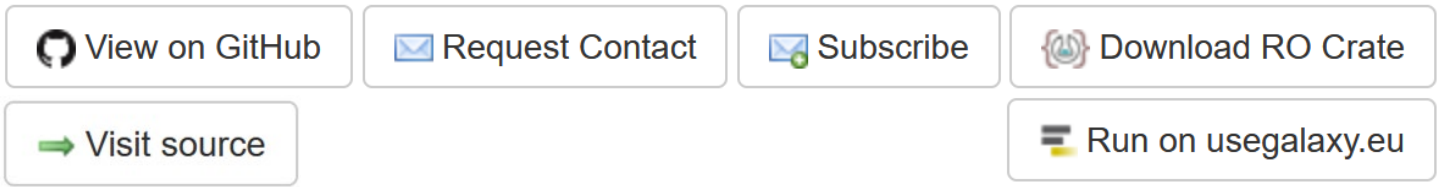
Collections

Feature Fest
Integration with other systems

API improvements (JSON API, samples, sample type)

GitHub integration

Application launching



Ongoing Projects
Contributing to Code Development

FAIRDOM HUB — Repository and metadata management for local storage (NeLS)

Workflow Hub — Registry for computational workflows

DataHub — Platform for (meta)data management and brokering to EBI repositories

LiSyM Liver Systems Medicine — Repository and metadata management for experimental data

IBISBA 1.0 — Metadata management for UNLOCK(iRODS) storage

nfdi 4 health — Registry for studies

URGI — Registry for federated databases (INRAE)

Leipzig Health Atlas — Repositories for files and models

FAIRDOM

With these projects
Data features in the pipeline

Data brokering

with local storage platforms & repos (e.g. NeLS, iRODS, Git, Github …)

with public archives (e.g. ENA..)

ISA Support

Improved ISA compliance and management

Rich ISA JSON export

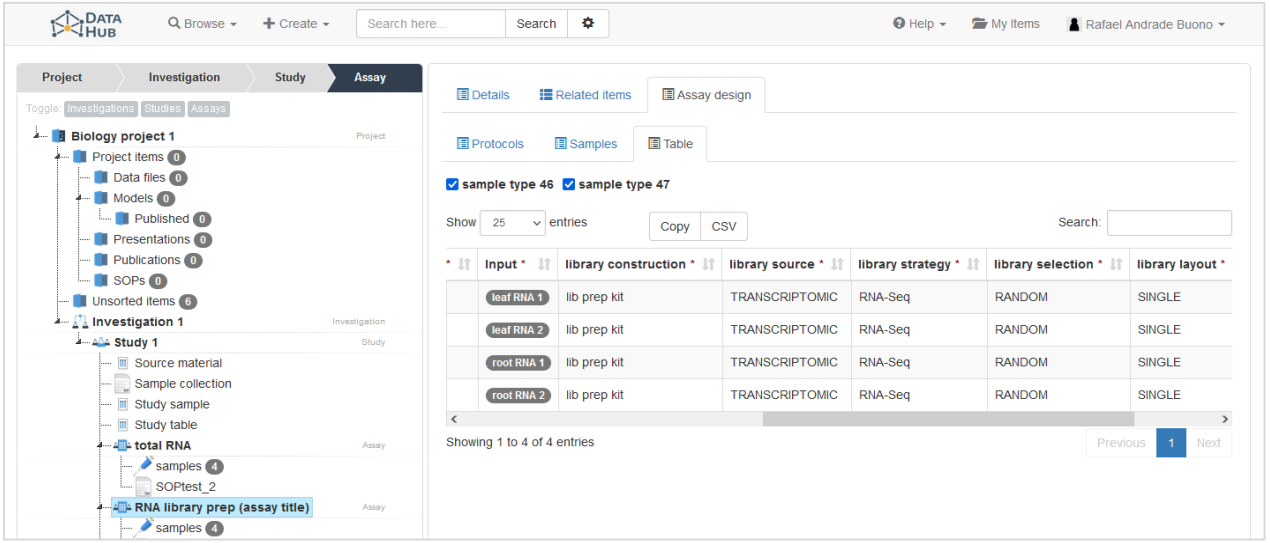
Special metadata

adding Observed Variables to the MIAPPE

FAIRDOM

More features in the pipeline
Project and file organisation & views

Single page view of Project - ISA



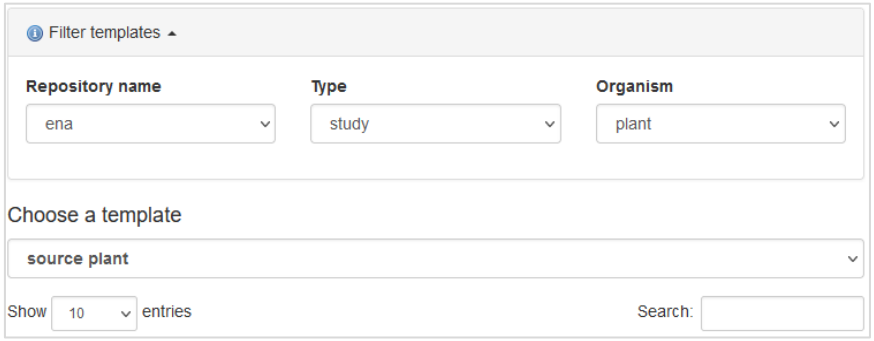
Improving search;
improved UI for filtering search results

- Project folder view to organise items within the project
- Multiple files for data and models, organised in folders with improved versioning support
- UI for administrators to create new extended/custom metadata per asset type

More features in the pipeline
Samples support enhancements

Samples Working Group

- Improve sample type templates, e.g. based on EBI checklists like ENA



Do you handle Samples? Have features to contribute?

- Improve querying of samples (detection of duplicates)
- Dynamic table for samples creation and description
- Introduce validation for PID/ontology terms
- Sample attributes with customizable regular expression for validation

Getting involved with FAIRDOM

https://fair-dom.org/get_involved

Channels

Slack SEEK4Science

Github Discussion SEEK

Google groups SEEK, Developers, Community

Online User Meeting

Two times per year
Next user meeting:
17 Oct 2022 14:00 CET

News & Events

https://fair-dom.org/news

https://fair-dom.org/events

Meetings

FAIRDOM Club biweekly
Community Workers monthly
Developers Discussion monthly

FAIRDOM

Links

- FAIRDOM-SEEK: https://fairdom-seek.org
- FAIRDOM: https://fair-dom.org

Hubs and Projects

- FAIRDOMHub: https://fairdomhub.org
- DataHub: https://datahub.elixir-belgium.org
- IBISBAHub: https://hub.ibisba.eu/home/terms
- URGI: https://urgi.versailles.inrae.fr/fairdom/
- WorkflowHub: https://workflowhub.eu
- LiSyM: https://seek.lisym.org
- NFDI4Health: https://covid19.studyhub.nfdi4health.de
- Leipzing Health Atlas: https://www.health-atlas.de