

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



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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





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

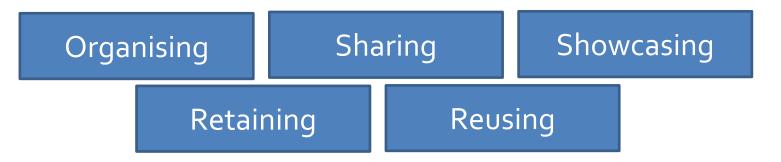
15:20 - Andrej Blejec, National Institute of Biology, Ljubljana, Slovenia

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

15:40 - Discussion



FAIRDOM FAIR Asset Management for Projects





People: Programmes, Projects, Profiles, Institutions

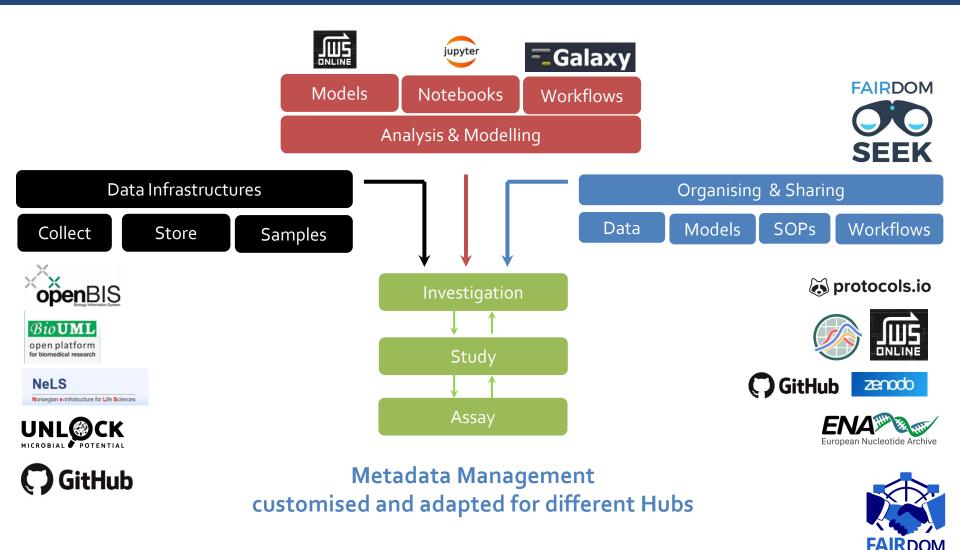
Experiments: Investigations, Studies, Assays

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

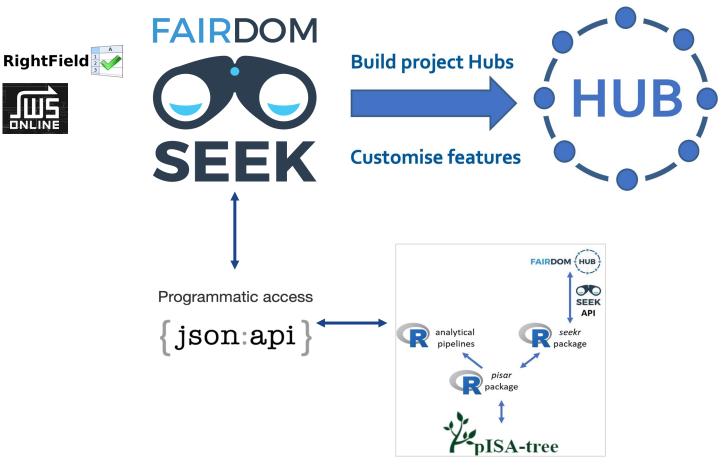
Samples: Samples, Sample types, Organisms, Strains



FAIRDOM Framework FAIR Asset Management for Projects



Open Source Software FAIR Asset Management for Projects



doi: 10.1101/2021.11.18.468977



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





Community Activities Project Support



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



FAIRDOM Consortium Ongoing Projects supporting FAIRDOM



Do you have a project that can contribute?



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!

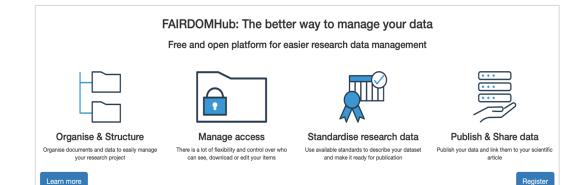
https://docs.seek4science.org/tech/releases/#version-1120

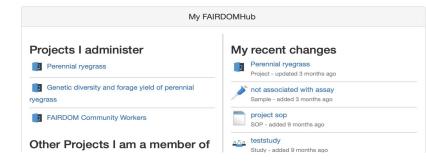


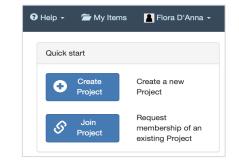
Feature Fest SEEK Hub Customisations

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



MIAPPE metadata v1.1

New Study

Upload studies from file:

MIAPPE Study batch upload

Download MIAPPE template here

Ontology

You can, optionally, populate the terms from an ontology available from the Ontology Lookup Service. To do so, select the ontology below, and then choose the root term - from which itself and all children will be added to the terms. You can choose the root term by following the link provide to browse the ontology. Then click Fetch to populate the terms below. Note that for a large tree this can take several minutes. Afterwards you can remove or tweak individual terms, or add additional terms. If you wish to generate an Controlled Vocabulariy for an ontology that isn't available on the Ontology Lookup

Ontology

A

lo Ontology
gronomy Ontology
Ilotrope Merged Ontology Suite
mphioxus Development and Anatomy Ontology (AMPHX)
n ontology of core ecological entities
natomical Entity Ontology
nimal Trait Ontology for Livestock
ntibiotic Resistance Ontology
pollo Structured Vocabulary (Apollo-SV)

Service, then please contact us using the Feedback Form.

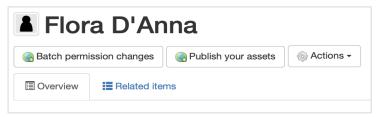


Feature Fest Improvements

Process Improvements

Batch sharing permissions

Creating and joining projects



Description Improvements

Describing the creators of items Markdown formatting for descriptions

Default	Condensed Table	Table and condensed			
•	Systems biology investigation of aromatic compound catabolism in facultative anaerobic Aromatoleum aromaticum EbN1T	Creator: Meina Neumann-Schaal	Project: EbN1 Systems Biology		
•	Sigma 2022-04-17 01:43:59	Creator: Andrej Blejec	Project: pISA-tree		

Dissemination Improvements

Discussion Channels				
BioExcel Workflows				
Tutorial				
Documentation				
Source Material				
Launch on MyBinder				

Enhanced support for publications

Discussion channel links

Comms channels

Request Contact





Feature Fest Creating and Organising Content

🔁 Help 🗸

	Q Browse -
Investigations	Yellow pages Programmes Projects
Query	Institutions
Search here	People
Created At	Experiments
Any time	Investigations
	Studies
Submitter	Assays
Konstantinos Pyrgakis	Assets
Munazah Andrabi	Data files
Project	Models
DBTL-P	Protocols
An inventory of the Aspergillus niger	Workflows
Test	Workflow Nodes
	Publications
Programme	Documents
IBISBA	File Templates
IBISBA 2020 f2f	Collections
Creator	Activities
Munazah Andrabi	Presentations
	Events
	Samples
	Sample types
	Organisms

Collection Explicit ordering of Investigation, Studies and Assays Linking multiple SEEK samples New Modelling analysis based on this one Run on usegalaxy.eu Net Codened Table Collections

New asset types – incl. workflows and their metadata and

Created: 16th Nov 2021 at 10:13, Last updated: 8th Feb 2022 at 11:39

BioExcel Building Blocks (BioBB) Protein MD Setup Tutorials

Selection of BioExcel Building Blocks (BioBB) Workflows, across three workflow languages (jup/ter notebooks, CWL, and Galaxy), demonstrating the use of BioBB tool descriptors for each of these systems. Maintainers: Douglas Lowe, Stian Soliand-Reyes, Adam Hospital, Genis Bayarri, Pau Andrio Number of items: 5 Tags: Not specified

Created: 26th Sep 2021 at 21:01, Last updated: 29th Sep 2021 at 15:27

Tutorials for BioExcel Building Blocks (BioBB)

Selection of BioExcel Building Blocks (BioBB) Workflows intended for tutorials and training.

Maintainers: Stian Soliand-Reyes
Number of Items: 14
Tags: molecular dmamics

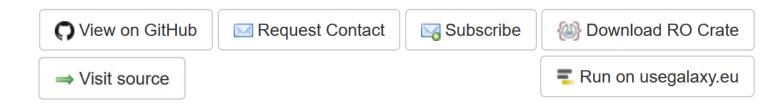
Created: 5th Jul 2021 at 11:35, Last updated: 29th Sep 2021 at 15:26



Feature Fest Integration with other systems

- API improvements (JSON API, samples, sample type)
- GitHub integration
- Application launching







Ongoing Projects Contributing to Code Development



Repository and metadata management for local storage (NeLS)





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





Metadata management for UNLOCK(iRODS) storage



Registry for federated databases (INRAE)

nfdi 4 health

Registry for studies



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



More features in the pipeline Project and file organisation & views

Single page view of Project - ISA

Q Browse - + Create	 Search he 	re	Search	\$		😧 Help 👻 🗖	My Items 🔒 Rafael /	Andrade Buono 👻
Project Investigation Study	Assay	E De	etails	Related items	tesign			
Biology project 1 Project Project			Protocols Samples Table					
In Data files O In Data files O			Show 25 v entries Copy CSV Search:					
Publications 0		• 11	Input * 📲	library construction * 🕼	library source * 💵	library strategy * 💵	library selection * 💵	library layout *
Insorted items Investigation 1	Investigation		leaf RNA 1	lib prep kit	TRANSCRIPTOMIC	RNA-Seq	RANDOM	SINGLE
All Study 1	Study		leaf RNA 2	lib prep kit	TRANSCRIPTOMIC	RNA-Seq	RANDOM	SINGLE
I Source material			root RNA 1	lib prep kit	TRANSCRIPTOMIC	RNA-Seq	RANDOM	SINGLE
Sample collection			root RNA 2	lib prep kit	TRANSCRIPTOMIC	RNA-Seq	RANDOM	SINGLE
🔳 Study table		<						>
total RNA Assay		Showing 1 to 4 of 4 entries Previous 1 Next						
samples SOPtest_2								
	Assay							
🗡 samples 🕢								

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
- Ul 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

Filter templates •					
Repository name		Туре		Organism	
ena	~	study	~	plant	~
Choose a template					
source plant					~
Show 10 v entries				Search:	

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 ۲



Getting involved with FAIRDOM https://fair-dom.org/get_involved

Channels

Slack <u>SEEK4Science</u>

Github Discussion SEEK

Google groups <u>SEEK</u>, <u>Developers</u>, <u>Community</u>

Online User Meeting

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

News & Events

<u>https://fair-dom.org/news</u> <u>https://fair-dom.org/events</u>

Meetings

FAIRDOM Club biweekly Community Workers monthly Developers Discussion monthly



Links

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

Hubs and Projects

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

