







FAIRDOM: hands-on basic training



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Tasks



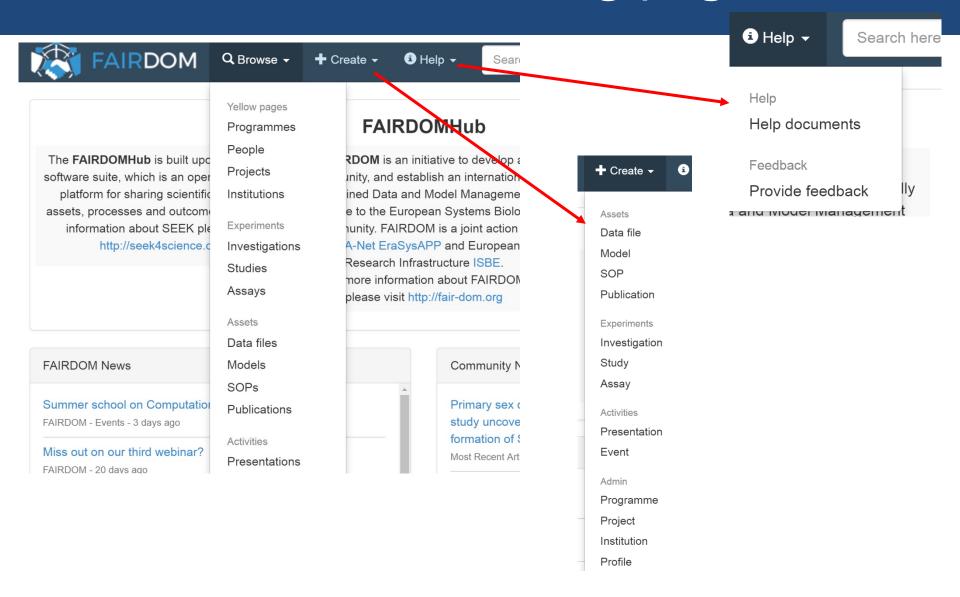
- T1. Creating and interlinking ISA elements
- **T2.** Downloading spreadsheet templates based data from SEEK, editing it and uploading to own ASSAY created in T1.
- T3. Creating SOP (as link to Nature protocols or local file to upload), link it to data file
- **T4.** Registering publications (with DOI or PubmedID), linking it to ISA, data file.
- **T5**. Creating/using sample types and (bio)samples
- T6. Create model, upload image representing e.g. pathway your model describes

Pre-task



- Go to the SEEK instance set for training https://sandbox4.fairdomhub.org/
- Log in https://sandbox4.fairdomhub.org/ (username/password : guest11 guest30)
- Go to https://sandbox4.fairdomhub.org/events/3
- Find Help documents http://docs.seek4science.org/help/
- Find Presentation "HandsOn_SEEK_Instructions" https://sandbox4.fairdomhub.org/presentations/7

FAIRDOMHub: Landing page



Instructions



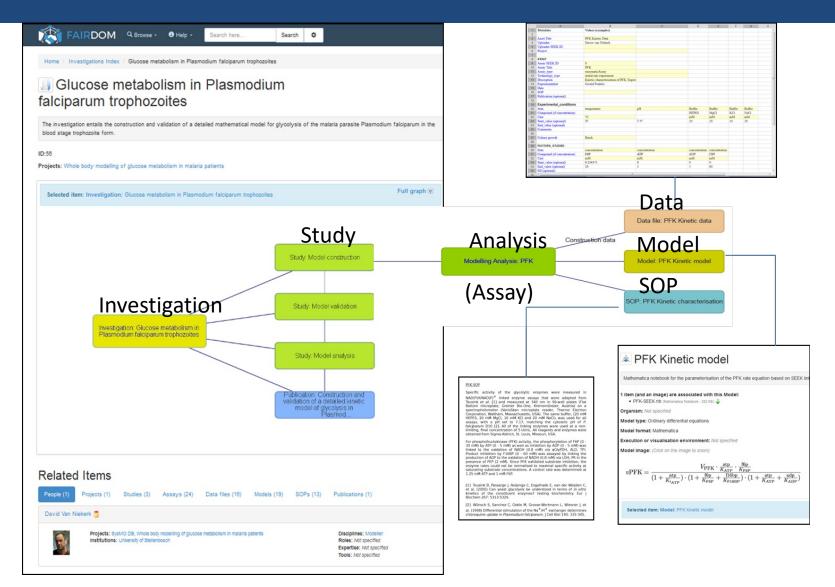
In the hands-on session you can either

- (i) use your own data, SOPs, to set up an ISA structure in SEEK
- (ii) use examples from FAIRDOMHub (e.g. templates with example data, SOPs, available to you

Please note that the assets you create in a training SEEK instance will be available for the duration of the workshop (+ one week) and deleted afterwards the workshop

....organised in an ISA (Investigation, Study, Assay/Analysis) format.





Task 1. Creating new ISA



- Create new Investigation, associate it to your project (FAIRDOM training), share it with own project
- On created Investigation page add a new Study, associate it to your project (FAIRDOM training), share it with own project
- Scroll down to the I-S-A graph, navigate to the Study page
- Add new experimental Assay to the Study created
- Define assay type and appropriate technology type (choose from the drop-down lists)
- Assign your Assay to the existing Study
- Define the access rights for your Assay e.g. sharing it with own project, or with single person

Access Permissions: Just Enough Sharing

Sharing ▼

Here you can specify who can **view** the summary of, **get** access to the content of, and **edit** the Data file.

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Share with a person

Share with a project/institution

Task 1a. Creating new ISA



- Navigate back to the Study page (via menü or using I-S-A graph)
- Add new modelling analysis Assay to your Study
- Define Model type, Model format, and Preferred execution or visualisation environment (choose from the drop-down lists)
- Assign your Assay to the existing Study
- Define the access rights for your Assay e.g. sharing it with own project, or with single person

Task 2. 1 Downloading and uploading data



- Go to https://fairdomhub.org/data_files/927/
- Visualise data content, look for spreadsheet structure and format
- Download this data file and open it
- Fill in some reasonable example data. This spreadsheet has been created using RightField, so you can select values from the drop-down lists in the spreadsheet
- Save the data file with a new name on your PC
- Upload (create new data file) this file to https://sandbox4.fairdomhub.org/
- Describe your data
- Link the data file to own experimental assay created in T1.

Task 2.2 Sharing data file



- Share data file with (i) project (ii) certain person (iii) public
- Define a temporary public link to your data file (expiring e.g. at end of June 2017)
- Logout and check whether you can access the file directly via temporary URL
- Subesequently make the file public
- Logout and check whether you can find and access the data file by browsing

Task 3. Creating SOP



- Go to example SOP https://fairdomhub.org/sops/253, view content
- Go to http://www.nature.com/protocolexchange/protocols/
 and choose any protocol (e.g.
 - http://www.nature.com/protocolexchange/protocols/4761)
- Go to FAIRDOMHub, create new SOP as
 - a) external link to Nature protocols (URL)
- b) uploading local file (downloaded from FAIRDOMHub or your own prepared SOP
- Share it with own project, or with single person
- Link SOP to experimental Assay created in T1.
- Link SOP to the data file created in T2.

Task 4. Registering publications



- Go to Pubmed and choose any publication of your interest, copy PubmedID
 - (e.g. https://doi.org/10.1371/journal.pcbi.1003186)
- Go to FAIRDOMHub and register new Publication (using PubmedID or DOI)
 - select Publication from Create menu
- choose PubMed ID or DOI insert the corresponding ID, click "Fetch" button
 - confirm abstract and authors list, finish
- Link publication to data file created in T2.
- Link publication to SOP created in T3.