Hands-on session SEEK

de.NBI Training - April 26th, 2018 Magdeburg

https://sandbox1.fairdomhub.org

Task 1: Getting familiar with SEEK

Go to FAIRDOM training instance: https://sandbox1.fairdomhub.org

Login: denbi5

Password: denbi5

Browse data files and click on "SEEK User Documentation"

Go to project: "de.NBI Training course for data management"

Go to investigation "Glucose metabolism in Plasmodium falciparum trophozoites" (https://sandbox1.fairdomhub.org/investigations/15) (https://fairdomhub.org/investigations/56)

Inspect the ISA structure

Task 2: Create a study

Create Study: (fields with red asterisks must be filled in).

- insert Title
- choose Investigation "Glucose metabolism in Saccharomyces cerevisiae"
- define Sharing
- Create

Task 3: Create an experimental assay

Create Assay:

- choose "An Experimental assay"
- insert Title
- choose Study created in Task 2
- define Sharing
- link assay to publication : "Schemes of flux control in a model of Saccharomyces cerevisiae glycolysis."
- Create assay

Task 4: Upload a data file and explore it

In your Assay created in Task 3:

- Add Data file
- select the data file (Excel table) you stored from SABIO-RK query (SABIO-RK Hands on Task 9.b) from your local machine
- insert Title
- define Sharing
- Upload and Save
- Explore Data File

Task 5: Create a modelling analysis

Create Assay:

- choose "A Modelling analysis"
- insert Title
- choose Study created in Task 2
- define Sharing
- link assay to publication : "Schemes of flux control in a model of Saccharomyces cerevisiae glycolysis."
- Create

Task 6: Add a model

In your Assay created in Task 5:

- Add model
- download SBML file from http://www.ebi.ac.uk/biomodels-main/BIOMD0000000172
- select the downloaded data file from your local machine
- insert Title
- define Sharing

Task 7: Upload a new model version

Browse Models:

- select the model uploaded in Task 6
- go to Administration "Upload new version"
- upload your model (SBML file) from COPASI course (or change some parameter values in the original SMBL file and upload the new version)

Task 8: Compare both model versions

Browse Models:

- select the model uploaded in Task 6
- under Version History click on "compare"

Task 9: Create a snapshot of your study

- Browse your study created in task 2
- Administration: Manage Study
- Sharing: public view
- Administration: Make a snapshot