DMP PhD Project Siene Swinnen

Project Name Development of a novel protocol for Metal Organic Frameworks (MOFs) as artificial enzymes in proteomics applications

Project Identifier 3E210863

Grant Title 1S61322N

Principal Investigator / Researcher PI: Tatjana Vogt; Researcher: Siene Swinnen

Project Data Contact tatjana.vogt@kuleuven.be; siene.swinnen@kuleuven.be

Description Strategic basic research about protein hydrolysis by using metal organic framework materials.

Institution KU Leuven

1. Data Description

What data will you collect or create? Fill out the table below and/or describe.

Type of data	Format	Volume	How created?
Powder x-ray diffraction data	XRD data file, XY file	2 GB	In-lab PXRD experiment
Microscopy images	.tiff	2 GB	SEM experiment
Images of SDS-PAGE experiment	.tiff	2 GB	Images taken with Gel-doc imager
Equipment specific softwaregenerated files	Bruker (NMR) and other spectroscopic technique files	10 GB	Different spectroscopic techniques for product analysis

Do you intend to reuse existing data?

Not applicable.
We will generate new data.

Do you use personal data (i.e. all data possibly identifying an individual)?

- No

Not applicable.

2. Documentation and Metadata

Describe the documentation that will be created for the data. This section deals with the way in which you will document how the dataset was created and subsequently processed.

The methodology and protocol of experimental data will be described in detail in lab notebooks. The research data is stored per type of experiment. The name of the folder will contain a reference to the type of experiment that was executed and the date.

Describe the metadata for the data. This section deals with metadata: information contained in your dataset about the research data.

A ReadMe file (Word/Excel file) with a clear description of what the data represent and how they were generatedand will provide an overview of all the experiments will be created during the project and completed at the end of the project. It will be stored togheter with the research data; more specific information can be found in physical lab books, referred to in the ReadMe file.

3. Ethical, Legal and Privacy Issues

Are there any ethical issues concerning the creation and/or use of the data?

Not applicable.

Did you consider all issues about copyrights and IPR?

Not applicable.

Are the collected data considered to be â€œdata containing personal informationâ€ and are all the requirements about the collection of these data met?

Not applicable.

4. Data storage and Backup during Research

How and where will the data be stored during research?

- Centrally on storage facilities of the research unit
- Centrally on storage facilities of the university
- In a cloud service offered by the university

- Raw and processed data will be stored on the researcher's HDD, and an up to date copy will be saved on Microsoft OneDrive account provided by the host institute.
- Data shared with other researchers working on the same project will be mainly saved on OneDrive to allow access to all collaboraters at all times.
- Plannification, methodology, experiment and follow-up of experiments will be saved in a lab notebook.

Which back-up procedures are in place?

The data will be stored on the university's central servers with automatic daily back-up procedures and on the groups personal external hard drives for long term storage.

Describe the data security procedures and who has access to the data.

Data will be stored on the university's servers where only authorized personnel can have access to it. The data is password-protected and access to it will be limited to the researcher and the PI. For projects done in collaboration with other researchers/groups, a limited access to that part of the data will be granted.

5. Data selection and Preservation after Research

What is the long-term preservation plan for these dataset(s)?

The data will be stored on the university's central servers (with automatic back-up procedures) for at least 10 years, conform the KU Leuven RDM policy.

Data Selection: Which data will have long time value for the research and will be preserved?

All relevant, the basis of publications or data which is likely to be reused within our research unit, will be preserved.

6. Data Sharing

Are there any restrictions for sharing the data?

Not applicable.

If there are no restrictions, which mechanisms will be in place to assure that the data are discoverable, accessible and intelligible?

- Collected results will be published in peer reviewed journals and made available for public. A copy will also be stored in the digital repository of KU Leuven association (LIRIAS; https://limo.libis.be/).
- Unpublised results on the other hand will not be public, allowing for setting-up new projects and the continuation of the team's work.

How will you share the data?

- Repository
- Publication

In a restricted access repository and as open data where possible, articles describing the research work will be published in peer reviewed journals.

With whom will the data be shared?

- Open Data

- The data generated during the project and its's reuslts will be publicaly available at the time of publication.
- The data that is not published yet, will only be available for people who have access to the shared OneDrive account and the group's external hard drives.

7. Responsabilities and Resources

Who is responsible for Data Management during the project? This will be the person who might receive questions on the data management aspects of the research project.

The researcher will be responsible for data collection/storage and documentation during the project. The PI bears the end responsibility of updating and implementing this DMP.

Which additional resources are needed for the execution of the Data Management Plan?

All the necessary equipment and software is already available for this DMP.

Did you read the KU Leuven Data Management Policy? (find the link to the policy in the guidance).

- Yes