Plan Overview

A Data Management Plan created using DeiC DMP

Title: Molecular Sensors

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Molecular Sensors

Data Collection

What data will you collect or create?

All experimental work is described in my lab journals (PhD - Mads Christian Larsen - Lab X, where X is roman numerals starting with I), and each experiment is numbered MXXX, starting with M001. All contain information, depending of the type of experiment, ranging from organic synthesis, spectroscopic measurements, or measurements of material conductivity.

How will the data be collected or created?

All data is collected and stored locally on the connected pc, for each type of instrument. All data is stored as proper file formats, containing all data and settings for each measurement. This often includes saving one measurement as two or more different file formats. This ensures data preservation, as well as protect against corruption of files, because it is not limited to only one format.

All experiments are, as mentioned above, numbered using the same system, which helps keeping a record of the data, between types of data, measurements and file formats.

Documentation and Metadata

What documentation and metadata will accompany the data?

The raw data files are never altered, only imported into data analysis software and compiled with other data files as complete experiments. These compiled data files are saved separately, and does not alter the original files, but just link to the data by a “path”.

Ethics and Legal Compliance

How will you manage any ethical issues?

This project does not contain any sensitive data.

How will you manage copyright and Intellectual Property Rights (IPR) issues?

It depends on the “form” of intellectual property, but I will act in conjunction with the proper code of conduct.

Storage and Backup

How will the data be stored and backed up during the research?

All computers connected to measurement equipment is not allowed to be connected to the internet, and most of the equipment does not have the capability to “push” files to the FKF S-drive. Thus the data collected is stored on the computer used for the measurements, and the data is only copied to a specific USB stick which belong to the computer. When the data is moved to my own computer for further storage, and analysis, it is not copied, it is “Cut” by which it is moved to my computer and deleted from the USB stick at the same time.

How will you manage access and security?

All computers used for measurements, as well as my own, are protected by password. The department allow storage on the internal drive (S-drive), on which all access is restricted and controlled for each user, with only access to approved folders. My work computer, I received from the university has One-Drive approved by SDU.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

All data is stored, both for preservation, and future use, and will as for now, be kept indefinitely.

What is the long-term preservation plan for the dataset?

All data I stored on both local harddrives, including my own work pc, and the pc’s connected to the measuring equipment. The data is also stored on the FKF S-drive.

Data Sharing

How will you share the data?

Primary sharing of processed data is as supporting information for the published papers, and ofc. As part of the actual papers. Results will also be shared in the form of posters at conferences, and/or presentations.

Are any restrictions on data sharing required?

By default, no, unless the potential journal specifies otherwise.

Responsibilities and Resources

Who will be responsible for data management?

The DMP is reviewed and revised by project research members

What resources will you require to deliver your plan?

Question not answered.