DMP_12W6122N_Startek

Project Name My plan (FWO DMP) - DMP_12W6122N_Startek
Principal Investigator / Researcher Justyna Startek
Institution KU Leuven

1. General Information

Name applicant

Justyna Startek

FWO Project Number & Title

12W6122N; Pathophysiological relevance of the chemosensory channel TRPA1 regulation by cholesterol reducing medications.

Affiliation

- KU Leuven

2. Data description

Will you generate/collect new data and/or make use of existing data?

- Generate new data

Describe in detail the origin, type and format of the data (per dataset) and its (estimated) volume. This may be easiest in a table (see example) or as a data flow and per WP or objective of the project. If you reuse existing data, specify the source of these data. Distinguish data types (the kind of content) from data formats (the technical format).

Origin of data	Type of data	File format	Volume	Collection mode
Imaging usig optical microscopy	Numerical, imaging and multimedia	.jpg; .tif; .zvi;.apl; .tnb;.mtb; .txt; .opj; .czi MS excel and MS Word files	up to 1 TB	Digital, raw and processed experimental data
Spectroscopy measurments	Numerical	.pda; .txt; .xlsx	up to 100 GB	Digital, raw and processed experimental data
Western and dot blot imaging	Image and numerical	.scn; .txt; .jpg; .xlsx	up to 50 GB	Digital, raw and processed experimental data
Behevioral analysis of experimantal animals	Multimedia,scanned observation spreadsheets and numerical	.mts; .jpg. .xlsx	up to 1 TB	Digital and non-digital, raw and processed experimental data
Animal records	Scanned evaluation sheets	.jpg	up to 100 KB	Non-digital, raw observation data

3. Legal and ethical issues

Will you use personal data? If so, shortly describe the kind of personal data you will use. Add the reference to your file in KU Leuven's Register of Data Processing for Research and Public Service Purposes (PRET application). Be aware that registering the fact that you process personal data is a legal obligation.

- No

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, add the reference to the formal approval by the relevant ethical review committee(s)

- Yes

ECD project nr LA1210202 - waiting for final approval

Does your work possibly result in research data with potential for tech transfer and valorisation? Will IP restrictions be claimed for the data you created? If so, for what data and which restrictions will be asserted?

- No

Do existing 3rd party agreements restrict dissemination or exploitation of the data you (re)use? If so, to what data do they relate and what restrictions are in place?

- No

4. Documentation and metadata

What documentation will be provided to enable reuse of the data collected/generated in this project?

For all types of collected data, we will note:

- goal and status of experiment with comments
- date recorded
- type
- pixel size (embedded in microscopy images)
- parameters and instrument settings
- analytical and procedural information
- units

using eLabFTW as well as a paper logbook. Each experiment will be clearly marked with the date and user name and all raw and processed files will be kept in the same folder that could be accessed thru a link placed in eLabFTW.

All paper-based information (animal records and evaluation sheets) will be recorded according to standard operating procedures, scanned, and saved on our internal server.

Will a metadata standard be used? If so, describe in detail which standard will be used. If no, state in detail which metadata will be created to make the data easy/easier to find and reuse.

- Yes

All instruments used will generate metadata that could be accessed and exported. This includes a camera that captures metadata from every taken image, protocol details, application files, etc. recorded according to Dublin Core Metadata Element Set.

5. Data storage and backup during the FWO project

Where will the data be stored?

For all experiments as well as scanned documents the time-stamped main file with the data will be kept in our research unit central storage facility with automatic backup. Copies will be made

and kept in our internal laboratory server and on the personal computers and external hard drives. Further DropBox and OneDrive will be used during the project.

How is backup of the data provided?

The data will be stored on the university's central servers with automatic daily backup procedures.

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely. If no or insufficient storage or backup capacities are available then explain how this will be taken care of.

- Yes

ICTS storage KULeuven is provided with standard user capacity:

- Large volume storage up to 100 TB
- Desktop file storage up to 1 TB
- Server backend storage up to 1TB
- OneDrive 2 TB that could be extended to 5 TB

What are the expected costs for data storage and back up during the project? How will these costs be covered?

Costs are coved by the host laboratory.

Data security: how will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

All data will be stored in the university's secure environment with specific KU Leuven ICT security standards.

6. Data preservation after the FWO project

Which data will be retained for the expected 5 year period after the end of the project? In case only a selection of the data can/will be preserved, clearly state the reasons for this (legal or contractual restrictions, physical preservation issues, ...).

All data will be retained for the period of 5 years, with the relevant data such as the basis of publications, data that can only be generated or collected once or data likely to be reused within the research unit or in wider contexts will be kept for minimum 10 years.

Where will the data be archived (= stored for the longer term)?

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

What are the expected costs for data preservation during the retention period of 5 years? How will the costs be covered?

The costs are covered by the host laboratory.

7. Data sharing and reuse

Are there any factors restricting or preventing the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

- No

Which data will be made available after the end of the project?

Archived raw data will be available for future use in cvs format in KU Leuven RDR and as source data in specific journals publications.

Where/how will the data be made available for reuse?

- In an Open Access repository
- Upon request by mail

When will the data be made available?

- Upon publication of the research results

Who will be able to access the data and under what conditions?

Unpublish data will be shared based on end-uses agreements. Published data will be available in the data repository.

What are the expected costs for data sharing? How will the costs be covered?

If any additional costs arose, they will be covered by the host lab.

8. Responsibilities

Who will be responsible for data documentation & metadata?

Principle investigator

Who will be responsible for data storage & back up during the project?

- Principle investigator
- CT KU Leuven

Who will be responsible for ensuring data preservation and reuse ?

Principle investigator and supervisor

Who bears the end responsibility for updating & implementing this DMP?

The principle investigator bears the end responsibility of updating & implementing this DMP under supervisor supervision.