DMP Hyka

Project Name My plan (FWO DMP) - DMP Hyka

Project Identifier 1SE2422N

Principal Investigator / Researcher Lukas Hyka

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Description My project's goal is to prepare therapeutic extracellular vesicles that will be used in the cancer treatment and tested in vitro and in vivo. The final product will be ready for the clinical testing. Therefore, it is important to create and collect data in order to be able to proceed with the clinical trials.

Institution KU Leuven

1. General Information

Name applicant

Lukas Hyka

FWO Project Number & Title

1SE2422N

Exploring strategies for efficient vectorized exosome-based therapy in pancreatic cancer

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).

Type of data	Format	Volume	How created
Microscopy images	.tif	100-300GB	Confocal fluorescence microscopy images of cells
Scanned western blot films	.jpeg	100 gb	Scanned western blot films
NTA analysis	.pdf	20 gb	NTA analysis of extracellular vesicles
Observation data from cells and animals	.xls	20 gb	Observation of the cells and mice after treatment with the therapeutical extracellular vesicles
Sequencing results	.xls	1 gb	Sequencing results of the prepared DNA constructs

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

Privacy Registry Reference:

Short description of the kind of personal data that will be used:

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

Approval of the ethical committee will be obtained in the upcoming years.

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?

- Yes

The findings of my project conserning the preparetion of targeted therapeutical vesicles will be protected by patent, which is currently being submitted by the legal department of KUL.

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?

Microscopy images the following information will be noted: dimensions, image type, bit-depth, pixel sizes and microscope settings.

The scanned images will contain the summary of the performed experiment and the date.

All the protocols and methodology will be described in the lab book.

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.

- No

The information about fluorescence images. These will be saved on the KUL drive under the name of the applicant, the name of the task and under the date

5. Data storage and backup during the FWO project

Where will the data be stored?

The hard copy of the data will be included in the lab book with all the protocols and methodology and will be stored in the locked closet in the laboratory. The virtual data will be stored on one of the KUL drives, where only the membres of the laboratory have access.

How is backup of the data provided?

All the data in the electronic form are stored on external, as well as, KU Leuven drive, which is daily backed-up on the servers of the university.

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

Yes the KU Leuven drives contain sufficient amount of space for all the data that will be collected for my project.

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

As my project will be saved on the drives that are used by the whole laboratory team I do not foresee any costs for data storage of my project.

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

The data on Ku Leuven drive are protected by KU Leuven. My promotor gives access to this drive.

The external drive will be locked in the office of my promotor and will be password protected.

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 the data generated during my project will be retained for at least 5 years after finishing my PhD project.

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

The data will be stored on the university's central servers (with automatic back-up procedures) for at least 5 years

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

The data will be stored on the university's central servers these are already used and payed by the laboratory team

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)?

- Yes. Specify:

The data about the preparation of the product will be patented.

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

The data will be made available upon request.

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

- 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?

The data will be accessible to the members of the team. For others the data will be accesible if the promotor provides access to the data.

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

There are no expected costs.

8. Responsibilities

Who will be responsible for data documentation & metadata?

The PhD student will be responsible for data documentation and metadata.

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

The PhD student and the PI will be responsible for data storage and back up during the project.

Who will be responsible for ensuring data preservation and reuse ?

The PI and lab technician will be responsible for the data preservation and reuse.

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

The PI bears the end responsibility of updating & implementing this DMP.