DMP title

Project Name My plan (FWO DMP) - DMP title

Project Identifier ZKE1871

Grant Title G0C0622N

Principal Investigator / Researcher Patrick Van Dijck

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Description INVESTIGATION OF THE UNDERLYING MECHANISM BY WHICH THE PKA AND CALCINEURIN PATHWAY REGULATE STRESS TOLERANCE IN THE HUMAN FUNGAL PATHOGEN CANDIDA GLABRATA

Institution KU Leuven

1. General Information

Name applicant

Patrick Van Dijck

FWO Project Number & Title

G0C0622N

title: INVESTIGATION OF THE UNDERLYING MECHANISM BY WHICH THE PKA AND CALCINEURIN PATHWAY REGULATE STRESS TOLERANCE IN THE HUMAN FUNGAL PATHOGEN *CANDIDA GLABRATA*

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).

WP1:

mass spec phophoproteomics data; excel; 100 MB; phosphoproteomics data obtained by mass spec analysis at the VIB proteomics service facility.

Gel images for validating strains; .tif; 30 MB; agarose gel electrophoresis images

WP2:

Scanned Western blots: .tif; 30 MB; western blot images of phosphoproteins

All WPS:

data on novel strains that were generated.

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

In work package 3 we will use primary macrophages that we isolate from the bonemarrow of mice.
We have already an approved ECD to prepare these primary macrophages from mice.
We will also use Galleria as a model system, but for this waxmoth there is no ethical document required.

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?

1. Microscopy images the following information will be noted: dimensions, image type, bit-depth, pixel sizes and microscope settings. The methodology and protocol will be described in detail in the lab book. A ReadMe file of the image collection will be written.
2. phosphoproteomics data will be obtained and the information on the status of the cells at the moment of harvesting will be documented in the lab book. Growth phase, temperature, strain, treatment.
3. All assays are available in the lab guide, which contains all protocols used in the lab.

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

for all experiments, detailed experimental conditions are noted down in the lab book. The most important parts of the methodology will also be mentioned in the manuscript.

5. Data storage and backup during the FWO project

Where will the data be stored?

All data are stored on the computer of the researcher. In addition, most data is stored on the I-drive (personal) and all important data is stored on the K-drive (shared) of the KU Leuven LUNA server.
All data will end up on the KU Leuven storage. ICT biology can provide access to these project folders

How is backup of the data provided?

The data will be stored on the university's central servers with automatic daily back-up 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

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

We have included the costs in our project application. Expected costs are less than 10 euro (cost is 500 euro/TB/year).

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

The data will be stored in the university's secure environment

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 that support the data presented in papers will be stored on the J drive (archive). In addition, all the large scale datasets (protein-wide phosphoproteomics data, sequencing data, ..) will also be stored on this server.

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 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 database of microscopy images, that will be compiled to realise this project, as well as the large set of phosphoproteomics data, will be hosted on the servers of KU Leuven. In view of the expected size of the database (hundred GB), estimated cost will be below 50 euro to set up the database and an annual fee of 50 euro for support.

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?

The full dataset will be deposited in a cvs format in KU Leuven RDR under a CC-BY license.

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

- Other (specify):

Data will be available on request after signing a data sharing agreement. The procedure for requesting access to data will be provided by ICT Biology

When will the data be made available?

- Upon publication of the research results

The full dataset will be uploaded on the archive server of KU Leuven

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

The full dataset will be uploaded on the archive folder of KU Leuven. Therefore, it will be available to anyone for any purpose, provided that they give appropriate credit to the creators.

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

There are no costs for data sharing.

8. Responsibilities

Who will be responsible for data documentation & metadata?

The PI Patrick Van Dijck will be responsible. The contact person will be ICT Biology

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

ICT Biology

Who will be responsible for ensuring data preservation and reuse ?

ICT Biology

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

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