DMP title

Project Name The Role of Sleep in Synaptic Plasticity at Inhibitory Synapses. - DMP title
Grant Title G052922N
Principal Investigator / Researcher Sha Liu
Institution KU Leuven

1. General Information
Name applicant
Sha Liu

FWO Project Number & Title
The Role of Sleep in Synaptic Plasticity at Inhibitory Synapses
G052922N

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).
Dataset 1. – Digital images
Microscopy pictures, gel scans, graphs, illustrations, figures.
Dataset 2. – Video files
Record of Drosophila behavioral assay
Dataset 3. – Electrophysiology data
Dataset 4. – Omics data transcriptomics
Dataset 5. – Vectors
Bacterial vectors, drosophila-bacteria shuttle vectors.
Dataset 6. – Genetically modified organisms
Living Drosophila melanogaster

Dataset 7.– Research documentation and Manuscripts

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)

- No

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?
during and at least 5 years after the end of the research.

Designation of responsible person:
PI (Sha Liu), Postdoc (to be recruited).

Storage capacity/repository:
E-Notebook: research documentation and processed data will be deposited in E-Notebook. Daily backups of the whole database are foreseen. All historical data (changes to the documentation) are also stored in the system. The lab have a monthly raw data backup system which will backup all the raw data into hard disk drives.

After the research:
Manuscripts: will be published and archived in public repositories
All materials will be deposited in public repositories such as Addgene, Bloomington Drosophila Stock Center.

Electrophysiological data: abf or dat format

Microscopic data: nd2, nrrd

Behavioral data: Mp4/Jpeg

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

5. Data storage and backup during the FWO project
Where will the data be stored?
All the data will be kept in online storage drive from KU Leuven

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

L drive from KU Leuven.

What are the expected costs for data storage and back up during the project? How will these costs be covered?
400 Euros/ TB per year. The cost will be covered by central lab running budget.

Data security: how will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?
All our data are not private data and no sensitive data will be used.
In principle, only the people from the lab can have the access to the data collected during the experiment. The data will also be public after the publication of the results.

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, ...).
The principle of preservation of data and the minimum preservation term of 5 years will be applied.

Where will the data be archived (= stored for the longer term)?
1. 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?
All data will be stored at the KU Leuven online storage servers for at least 5 years.

We expect the size of the data will be < 1 TB, estimated cost will be 400 euro per year. My lab running budget will cover the costs.

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?
All data will be available to the public after publication

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

- In an Open Access repository
- Other (specify):

Upon request by email

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 full dataset will be available to the public under no conditions.

What are the expected costs for data sharing? How will the costs be covered?
There is no extra cost for data sharing since the data size will be relatively small.

8. Responsibilities
Who will be responsible for data documentation & metadata?

PI (Sha Liu), Postdoc (to be recruited).

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

PI (Sha Liu), Postdoc (to be recruited).

Who will be responsible for ensuring data preservation and reuse ?

PI (Sha Liu), Postdoc (to be recruited).

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