Plan Overview

A Data Management Plan created using DMPonline

Title: PROTAC-inspired Design and Development of Mitochondrial Targeting Cancer Therapeutics

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Template: University of Liverpool Postgraduate Research Student Template

Project abstract:

Mitochondria are believed to participate in many important processes of cellular life, and dysfunction of mitochondria is also closely related to many diseases. The existing experimental results have successfully confirmed that Mito-Fu, a mitochondrial targeting compound family, has inhibitory activity against a variety of solid tumour cells, marking that mitochondria can serve as a potential cancer treatment target by inhibiting the life process of cancer cells to achieve treatment goals. Existing studies have not only confirmed the cancer inhibitory ability of Mito-Fu, but also found that it has targeting toxicity to normal mitochondria.

This project aims to enhance the targeting ability of Mito-Fu towards cancer cell mitochondria by referencing existing PROTAC targeted drug technologies, thereby reducing its potential biological toxicity in future clinical use

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PROTAC-inspired Design and Development of Mitochondrial Targeting Cancer Therapeutics

University of Liverpool Required Information

What stage are you at in this project?

- PhD

Which faculty do you belong to?

- o Health and Life Sciences

Do you have, or will you be applying for Ethics approval for your project?

- Yes

Will be you collecting and storing personal or sensitive data as defined under the terms of GDPR? (this includes email addresses, phone numbers, etc)

- No

Will you require space on the Active DataStore?

- No

If you are not using the ADS, where will you store your data?

- M Drive

Will you be depositing your data in an open repository at the conclusion of your project?

- No

Your research data

What types of data will be collected or created?

Cellular toxicity experimental data

Animal (mouse) in vivo toxicity test data

What formats will you use?

Text, PDF, Picture, Figure, Excel, etc

How much data do you estimate you will be collecting and storing?

Less than 1Gb

Documentation

Are there any standards for organising, labelling or describing research data in your field of research. If so, detail below.

General biological and chemical data labeling and display methods

Ethics and Intellectual Property

Who owns the data you will be using, creating or collecting?

Institutions (XJTLU/UoL)

Are there any legal, ethical or commercial considerations?

Yes

If there are, how do you propose to deal with them?

According to regulatory requirements, apply for implementation in accordance with regulations

Storage and Organisation

Where will the data be stored during your project?

PC

If you are not using UoL managed drives, where will you be storing your research data and what are your reasons for doing this?

PC
Easy to access.

Are there any security issues relating to the storage of the data.

Basic storage conditions.

Who else will have access to this data during the project?

Supervisor, Data reviewers.

Data Sharing

Will you be able to share any of your data?

It would be able to share to my supervisor and data reviewers.

How do you plan to share your data? Will it be 'open'?

It will be saved in the relevant database of the institution for reference.
It would be open by following the institution's rule.

If not 'open' who could have access to your data?

Project related personnel and auditors.

Long term archiving

Which data will you be able to retain in the long term?

Cell research data. Chemical structure and data.

Where will the data be archived at the end of the project and how long will it be retained?

PC. Till the PhD's end

What formats do you anticipate the data will be archived in?

Text file

Implementation

How often will this plan be reviewed?

Once per year

What training is needed to implement this plan?

Training related to biological and chemical experiments

What further information or help is required to implement this plan?

Standardized technical support