
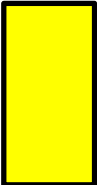


☐ I do not submit a DMP for the following reason:


1. Data collection and documentation

- 
- ☐ 1.1 What data will you collect, generate or reuse?
 - ☐ 1.2 How will the data be collected, observed or generated?
 - ☐ 1.3 What documentation and metadata will you provide with the data?

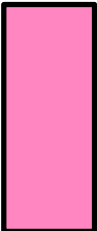
2. Ethics, legal and security issues

- 
- ☐ 2.1 How will ethical issues be addressed and handled?
 - ☐ 2.2 How will data access and security be managed?
 - ☐ 2.3 How will you handle copyright and Intellectual Property Rights issues?

3. Data storage and preservation

- 
- ☐ 3.1 How will your data be stored and backed-up during the research?
 - ☐ 3.2 What is your data preservation plan?

4. Data sharing and reuse

- 
- ☐ 4.1 How and where will the data be shared?
 - ☐ 4.2 Are there any necessary limitations to protect sensitive data?
 - ☐ 4.3 I will choose digital repositories that are conform to the FAIR Data Principles
 - ☐ 4.4 I will choose digital repositories maintained by a non-profit organisation.

Cancel

Return

Save

Print

Continue

Project Name Drosophila Genetics

Description This project will investigate the role of Polo kinase in metaphase to anaphase transition in *Drosophila melanogaster*.

Funder Biotechnology and Biological Sciences Research Council

Institution University of Glasgow

This project will generate three main types of raw data.

1. Images from transmitted-light microscopy of giemsa-stained squashed larval brains.

2. Images from confocal microscopy of whole-mounted larval brains.

3. Western blot data.

Measurements and quantification of the images will then be recorded in spreadsheets.

Micrograph data is expected to total between 100GB and 1TB over the course of the project.

Scanned images of western blots are expected to total around 1GB over the course of the project.

Other derived data (measurements and quantifications) are not expected to exceed 10MB.

types

volume

All samples on which data are collected will be prepared according to published standard protocols in the field. Files will be named according to a pre-agreed convention. The dataset will be accompanied by a README file which will describe the directory hierarchy and file naming convention.

Each directory will contain an INFO.txt file describing the experimental protocol used in that experiment. It will also record any deviations from the protocol and other useful contextual information.

Microscope images capture and store a range of metadata (field size, magnification, lens phase, zoom, gain, pinhole diameter etc.) with each image.

This should allow the data to be understood by other members of our research group and add contextual value to the dataset should it be reused in the future.

The confocal and transmitted light images generated in this work may well be of use in the future. It is entirely possible that another study would want to measure a different aspect of mitosis in *Drosophila* (both the wild-type controls and the mutants) treated as per the protocols in this study. I cannot see the western blot data being of future use.

Datasets from this work which underpin a publication will be deposited in Enlighten: Research Data, the University of Glasgow's institutional data repository, and made public at the time of publication. Data in the repository will be stored in accordance with funder and University data policies. Files deposited in Enlighten: Research Data will be given a Digital Object Identifier (DOI) and the associated metadata will be listed in the University of Glasgow Research Data Registry and the [DataCite](#) metadata store. The retention schedule for data in Enlighten: Research Data will be 10 years from date of deposition in the first instance, with extensions applied to datasets which are subsequently accessed. This complies with both University of Glasgow guidance and funder policies.

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The DOI issued to datasets in the repository can be included as part of a data citation in publications, allowing the datasets underpinning a publication to be identified and accessed.

Metadata about datasets held in the University Registry will be publicly searchable and discoverable and will indicate how and on what terms the dataset can be accessed.

It is not anticipated that this study will generate any patentable data or proprietary data which would have to be protected.

Images will be stored as .tif

Data in spreadsheets will be stored

Data in freetext documents will be

formats

These formats are platform agnostic and should support future access and reuse.

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1.2

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methods

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1.2

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standards

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Ideally:

- Naming conventions
- Version control
- Folder structures

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Minimal metadata:

- Name
- Persistent identifier
- Name of who collected the data
- Date of collection
- Conditions to access the data

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copyrights

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2.1 Ethical issues: not applicable

2.2 Sensitive data: not applicable

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3.1 Nothing about storage/back-up procedures!

3.2 Specify how you will select the data that will be retained

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4.3 Check if the repository conforms to the FAIR principles on re3data.org

Repository details

Enlighten

