Data Management Session Preparation Instructions

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EMBRIO Summer School, June 10th, 1-3pm, MJIS 1097

Welcome to the EMBRIO data management workshop! **As part of the training we will have on June 10th, you will need to bring samples of your lab's microscopy image data and publication data.** We will learn how to upload and manage your images and metadata information during the session. You will need your laptop.

What kinds of microscopy data should I bring? Raw, proprietary microscopy images are preferred because they contain metadata that is automatically incorporated to the database (that is, less work for you). These often have file extensions like:

ND2 – Nikon
CZI or ZVI – Zeiss
LIF or SCN – Leica
OIB or OIF - Olympus

If you do not have the proprietary formatted data saved, then non-compressed images in TIFF are acceptable, but may require more manual information annotation. This will be discussed in training.

Also, if you have higher-dimensional data, such as HDF5, or Imaris IMS, please let me know.

How many image files should I bring? You only need one of each type (if you have multiple types), but also having a few across your publications can reveal any issues with your data that might arise. Overall, you will want to limit the data to something manageable to upload during the workshop (less than 1 GB).

Lastly, please have access to the following information to make entries to the EMBRIO PURR web page. Most of this information is in your publication/manuscript:

1. Title. Can be the title of the corresponding publication
2. Author names, emails, institutions
3. Short summary text of the work
4. Diagram/Schematic files and/or compressed videos that you want to show on this page
5. Keywords list
6. URL for the publication
7. License use type (CC0 1.0 Universal, CC BY 4.0, GNU-GPL, etc.)
8. URL for the code repository (if exists)

You may not have the complete set of data available for the workshop – and that is ok. This is just to show everyone how EMBRIO data management works, and to make you comfortable with handling data for the repository. We will work with the information you have.

I am looking forward to seeing you all next week. Please feel free to email me directly with any questions.

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