

Data Storage at Massive

Updated 07/05/2019

Notes:

1. Your data is stored in the `uow-mh-cryoem` project storage as `.mrc` stacks. This area is backed up and will serve as the storage location for your data for the duration of storage at Molecular Horizons.
2. Your `_scratch` storage in your project will be your main working space for data processing. Relion, Scipion etc. projects should be stored here. Project storage is used for 'precious' storage, e.g. final particle stacks, metadata at the end of processing, final structures.
3. Saving aligned stacks during motion correction takes up large amounts of storage. Consider carefully if this is necessary. With Relion 3 this is no longer required.
4. Your data is stored at Massive is located at:

```
/projects/uow-mh-cryoem/'project'/'data_dir_name' /
```

EPU uses a format below for the frames:

```
supervisor_XXXXXXXX_XXXXXX/Images-Disc*/GridSquare_XXXXXX/Data/FoilHole_XXX... .mrc
```

5. In protocol below, we have used **example** paths for **workshop** data stored in `uow-mh-cryoem`. You will need to use your own paths.

Data Setup Protocol:

1. Login to Massive using a Standard Desktop and open a terminal.
2. Create a project directory for Relion (you will want one project directory for each dataset) in your scratch space and inside of that create a directory Micrographs. The command below will make both directories at once.

```
mkdir -p ~/your_scratch/relion_workshop/Micrographs
```

3. Take note of where your micrographs are located in the data depository. As in step 4 above, usually something like:

```
'project'/'data_dir_name'/frames/supervisor_*/Images-Disc*
```

4. Copy micrographs (as symbolic links) into micrograph directory. A script is available in the data depository to action this.

| Copy symbolic links (to all `.mrc` files) from `workshop_data` to Micrographs

```
/projects/uow-mh-cryoem/scripts/MakeSymLinks.sh /projects/uow-mh-cryoem  
/workshop/data/arctica/apoferritin ~/your_scratch/relion_workshop/Micrographs
```