May 5- Friday-2023

**Aim-**

Finish the travel grant application for ISCB or DDLS conference. (Email to DDLS steering group and also email to ISCB for acceptance letter from one) \*\*

Finish Poster for Histology abstract.

**Deadline**

May 22.

May 22 (for 24 you need to print it also).

------------------------------------------------------

May 24, 25

Lund Spring symposium

**May 26**

Writing course final assignment.

Klara’s rehearsal presentation.

-------------------------------------------------------

**June 08-**

Aim: start from 6th plate and continue to run model over those. (Try one or two days to run on gpu again). Finish running the models over whole dataset before August! Only June and July!

Clean the code and push to github at the same time with running on plates.

-------------------------------------------------------

**June 16-**

Start Stanford graph course for some of lectures regarding using a GAT (graph attention network) or GCN (graph convolutional network) for downstream analysis of screen (find gene regulatory network).

Figuring out how to connect features from nuclei to find knowledge graph or regulatory network.

Find some papers and the graph course. Not enough.

I will work also on plates to run on all plates (spend 24 hours to fix GPU) again and make it automatic executable.

-----------------------------------------------------------

**July 21, 2023**

I could fix gpu on clusters but the results were different. I am running plates on my own RTX gpu

Takes less than 2 hours each.

Now I am running series 14.

**Errors**

**I overwrite plate MFGTMPcx7\_170521130001 with segm file.**

**The process is like to**

1. **Download from swestore**
2. **Run extract\_convert script over plate to extract only d0 channel.**
3. **Normalize them to 8bit images in bash**
4. **Save the names in 4\_filelist folder and remove .C01 from the folder and only keep png ones (6144)**
5. **Copy to computer (run prediction model over them)**
6. **Copy back to cluster**
7. **Run area\_size.py script over them and cp the file to A, or B, or C, or D**
8. **Run the plot over all of them**

Errors till now:

\* **MFGTMPcx7\_170521130001 is not there any more.**

\***10 A** was three files that were merged the first two and handled under the code of “170530110007”.

\* MFGTMPcx7\_170602060001 (13C) is 6143 images and I16f13d0.C01 is a damaged images and can not converted to png (I tried again separately and bfconvert did not work on it ).

Other than that everything is oK. Files are now on Berzelius under Klara/Segmentation/

But I will copy them to Lunarc before vacation.

--------------------------------------------------

**Aug 04-**

No space left on Berzelius.

I moved raw data part to lunarc both tar original files and png folders.

Keep running segmentation model on plates. (Now running series 33)

A copy of progress file is on

C:\Users\salma\OneDrive - Lund University\Segmentation\_UNET\_HoverNET\barcodes\_plate\_number.