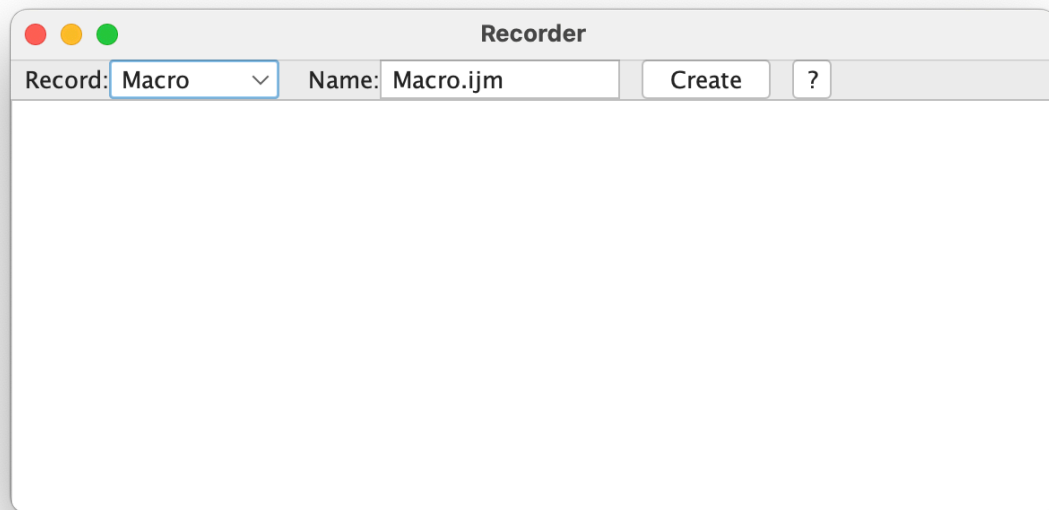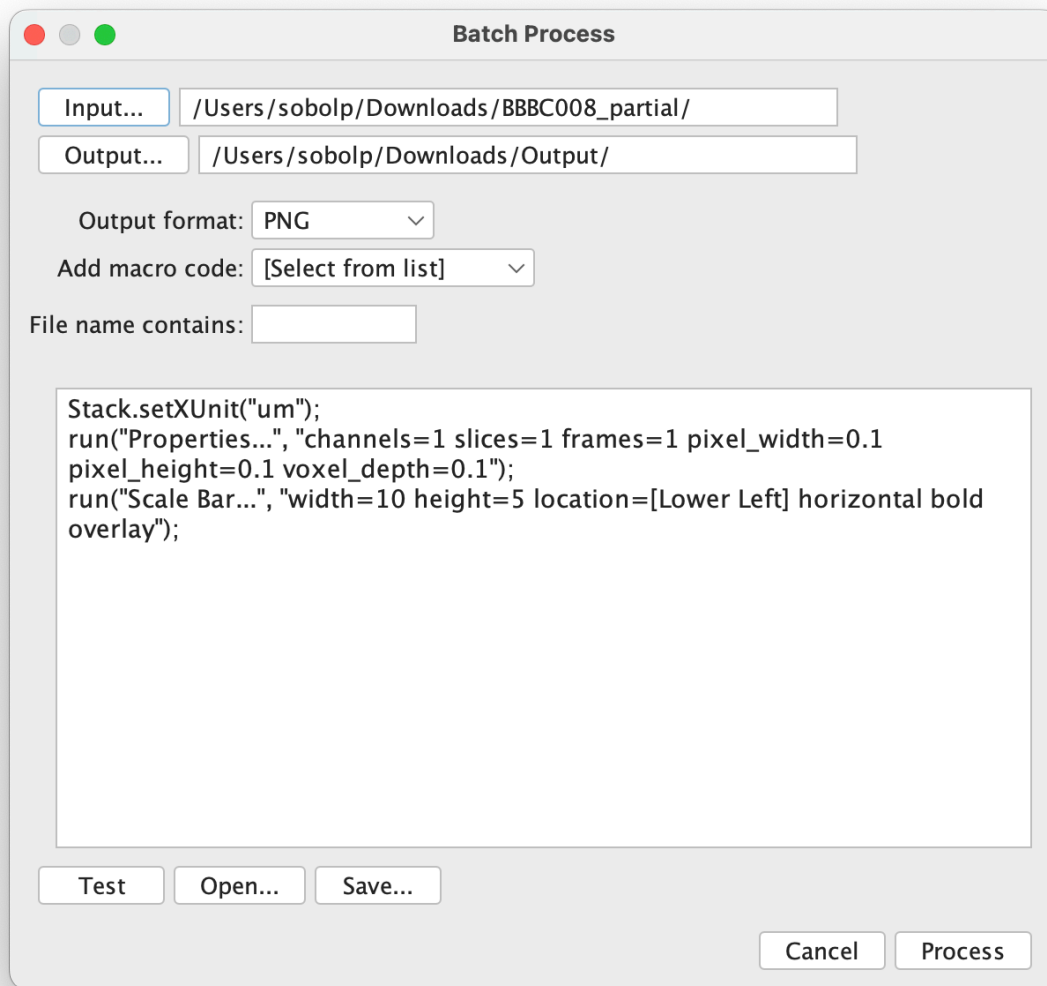Task 8 – Batch processing with Macro Recorder

1. In Task 7 we saw how useful Batch processing could be in Macro mode. But how would you ever guess which line needs to be added to that list of commands? It turns out Fiji can record everything you do as a list of commands! This is the Macro Recorder!
2. Open any one of the individual images in the BBBC008 dataset mentioned in the presentation and used in Task 7.
3. Run [Plugins -> Macros -> Record]

4. Try running any Fiji menu command. You will see the equivalent macro line in the Recorder window.
5. Delete any text in the Recorder and let's record a simple Macro to add calibration info and scale bars to all of the images using Batch processing. Reminder: the next commands will get recorded by the macro Recorder so try to ensure you do what you really want!
6. Open [Image > Properties] and set the pixel size to 0.1 microns per pixel.
7. Open [Analyze > Tools > Scale Bar…] and add a 10 µm scale bar in the bottom left corner.
8. Check that the text in the Macro Recorder makes sense.
9. Open the Batch processing [Process > Batch > Macro…] and paste the text in the Recorder window into the text box.

Batch Process

Input... /Users/sobolp/Downloads/BBBC008_partial/

Output... /Users/sobolp/Downloads/Output/

Output format: PNG

Add macro code: [Select from list]

File name contains:

```
Stack.setXUnit("um");
run("Properties...", "channels=1 slices=1 frames=1 pixel_width=0.1
pixel_height=0.1 voxel_depth=0.1");
run("Scale Bar...", "width=10 height=5 location=[Lower Left] horizontal bold
overlay");
```

Test Open... Save...

Cancel Process

10. Click test to check that you get what you expect and once satisfied, press Process!

Note: if something isn't correct, you can use the following macro:

```
run("Properties...", "unit=um pixel_width=0.1 pixel_height=0.1");

run("Scale Bar...", "width=10 height=10 font=30 background=None
location=[Lower Left]");
```