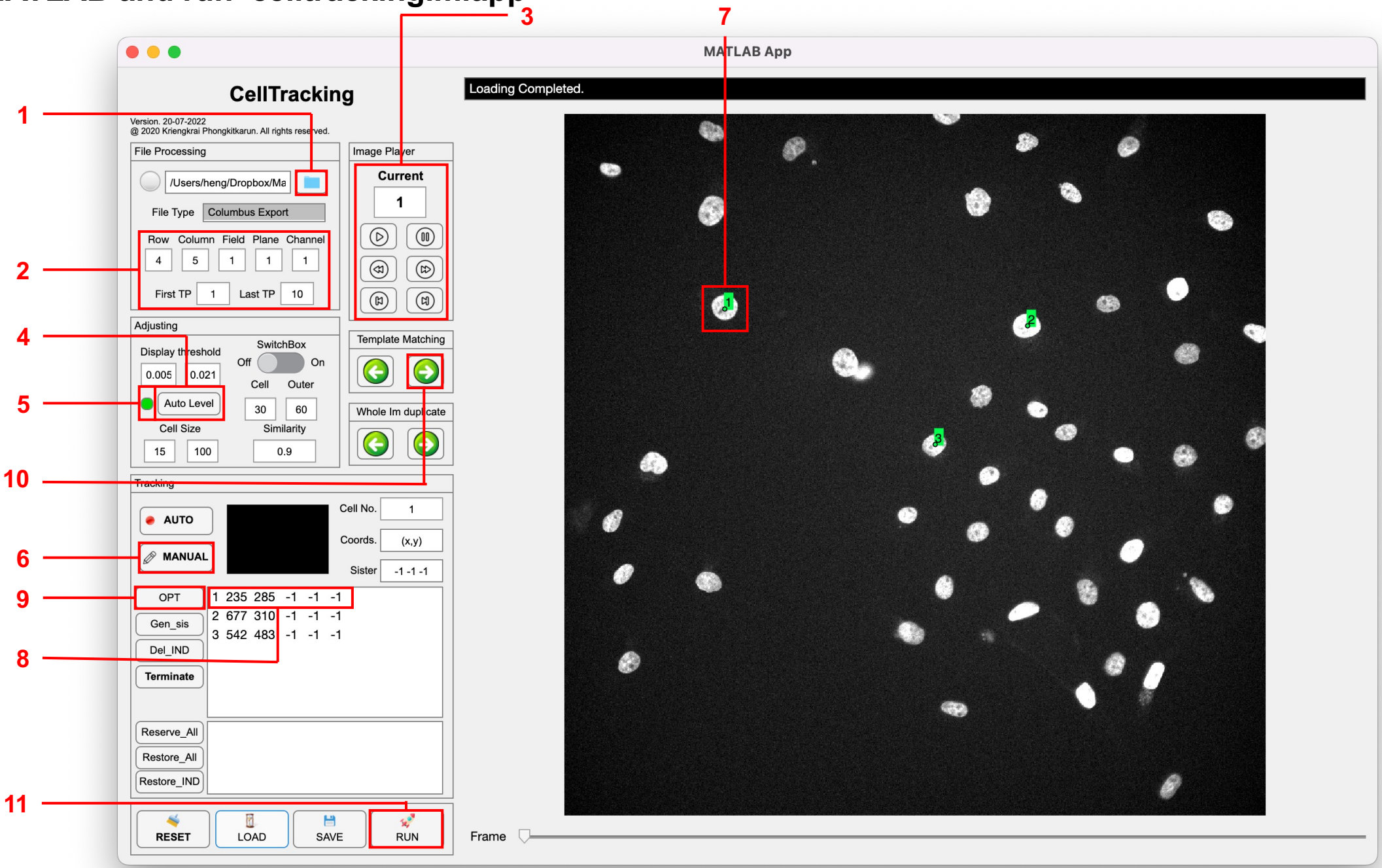
How to use celltracking.mlapp

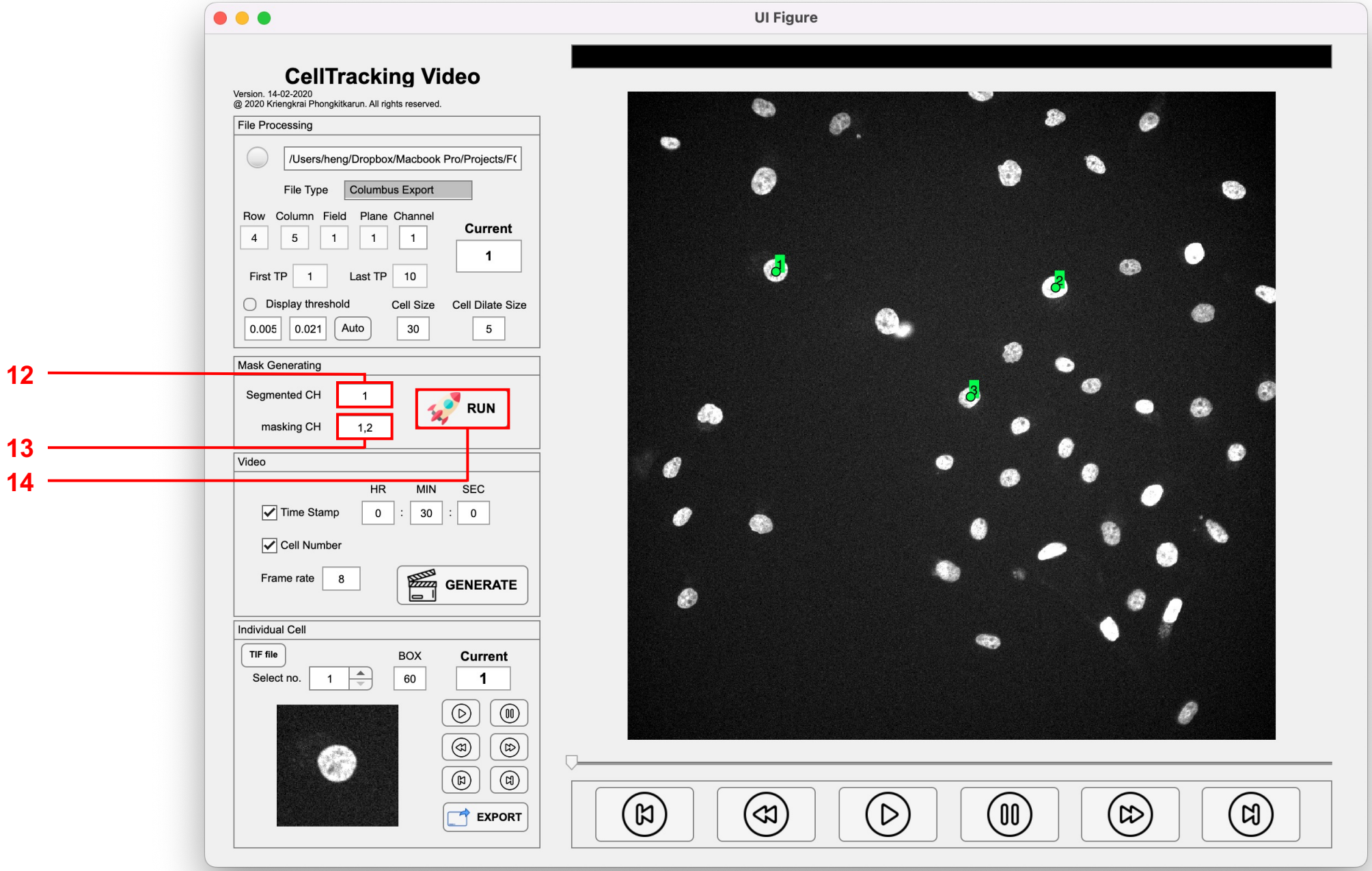
Heng

26 September 2022

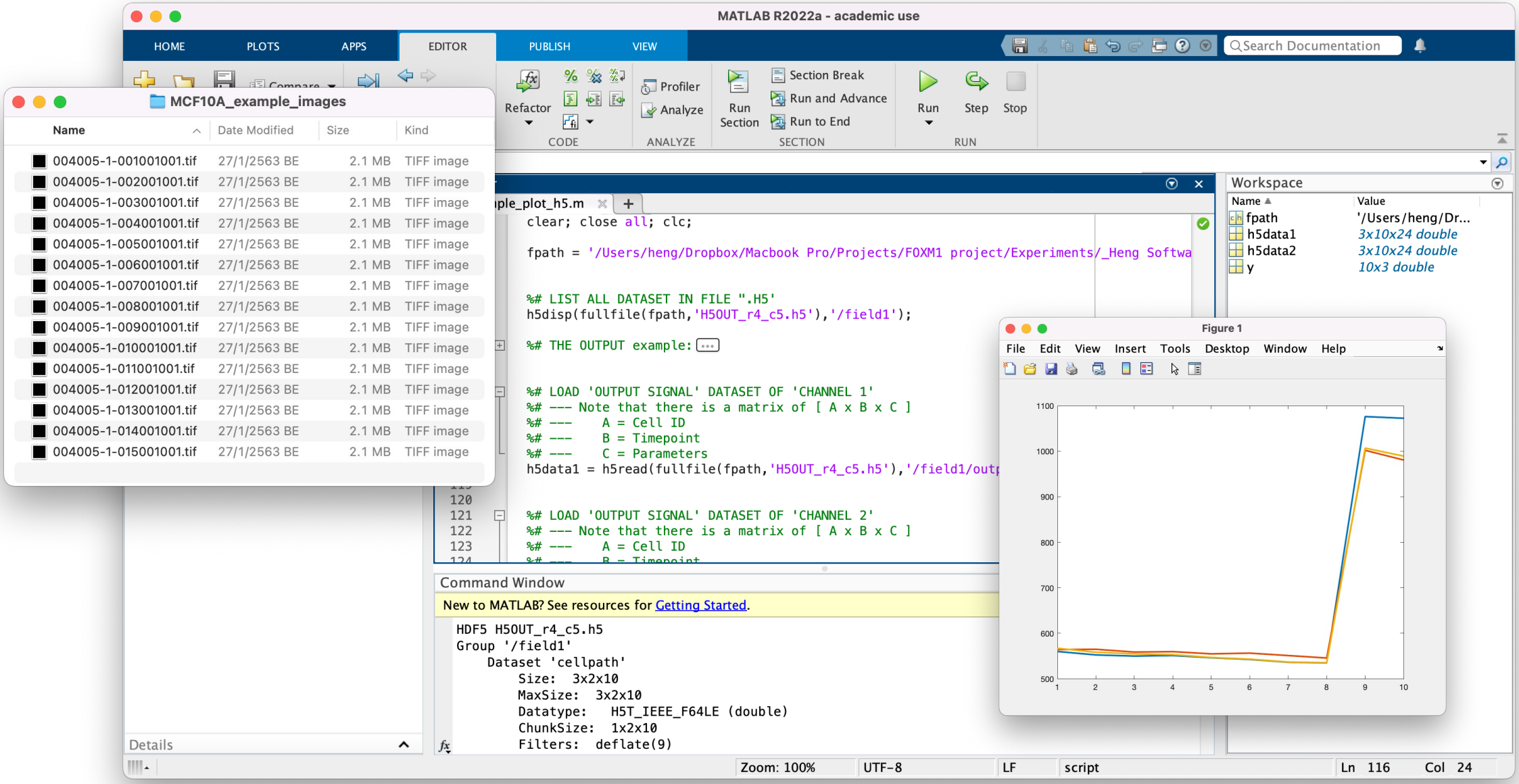
I. Open MATLAB and run ‘celltracking.mlapp’



I. Open MATLAB and run ‘celltracking.mlapp’ (cont.)



II. Open MATLAB and run ‘example_plot_h5.m’



III. Description

A. Load images

1) Click load folder that containing images data set
2) Adjust the parameters in Columbus format
3) Change the timepoint to start (t = 1)

B. Adjust Threshold

4) Click to apply auto threshold for human eye observation
5) (Optional) Set ‘on’ (green color) to automatically adjust threshold on every frame

C. Add new object

6) Click manual to add a new single cell object
7) Select an single cell object to observe
8) Click to select the cell
9) Click ‘OPT’ to set center location of that cell

D. Track the cell

10) Click to start tracking and go to the next frame
11) After completed tracking, click ‘RUN’ for further analysis

E. Generate Mask (segmentation)

12) Select nuclear channel
13) Define all channels
14) click ‘RUN’ to start
15) Close the ‘CellTracking Video’ window

F. Save to H5

16) Click ‘Save’ and the h5 file will available at the images folder