

3.1

```
39 %% Save Data Files
40 %If you want to save the data in a mat file, copy and past the following
41 %line into the command window and save it. Then uncomment the next load
42 %line (line 38).
43 %WpData = [cellstr(filename ), cellstr( Ave150 ), cellstr( AveROI ), cellstr( Total Elapsed Time ), cellstr( User Input Time)];
44 % load WpData %Load data file for storing Wp and time data
45
46 % Set the directory to save the list of Wp by distance from GJ edge
47 - savefile = ['',file_name, '.mat'];
48
49 %% Figure Save Locations
50 - savestringDC = ['',file_name]; %Directory for final working image figure:
51 - file_name1 = [file_name, 'A'];
52 - savestringOCL = ['',file_name1]; %Directory for original image w/ centerline overlay:
53 - savestringWPMP = ['',file_name]; %Directory for Wp/distance-from-GJ plot:
416 % save(savefile, 'WpList')
417 %
418 %
419 % % If you are using the WpData file from the top of the code, uncomment the
420 % %following lines to save relevant data and figures.
421 %
422 % %Save data - [File name, 0-150nm Wp, ROIWp, total time, user input time]
423 % % WpData = [WpData;cellstr(file_name), num2cell(Ave150), num2cell(aveROI), num2cell(eltime), num2cell(userinputtime)];
424 % % save ('WpData','WpData');
425 % % %Save final working image figure
426 % % savestringDC = ['',file_name]; %Insert save location
427 % saveas(figure(6),savestringDC)
428 % % %Save original image w/ centerline overlay
429 % % savestringOCL = ['',file_name]; %Insert save location
430 % saveas(figure(7),savestringOCL)
431 % % %Save Wp/distance from GJ plot
432 % % savestringWPMP = ['',file_name]; %Insert save location
433 % saveas(figure(9),savestringWPMP)
```

3.3

```
8 %% Set Parameters
9 % The following are the default parameters. The user will adjust if
10 % desired in the input box (Line 19)
11 - GthreshDef = 4.5; %Default hreshold to isolate outline and centerline. Typically between 5 and 8. Higher threshold leads to m
12 - scaleDef = 2.912; %Default scale in pixels/nm (200nm scale bar, VetMed scope)
13 - ROIminDef = 30; %Identify Region of Interest (30-105nm is standard for perinexus, 10-90 standard for gap junction width)
14 - ROImaxDef = 105;
```

3.4

```
6 %% Set File Select Location
7 - selected_file = ('');
```