

## Preprocessing with ImageJ prior to using FiberFit

ImageJ: ImageJ is a freely available, open source software used for the preprocessing and analysis of scientific images. The download link can be found on their webpage [here](#).

Image Requirements for FiberFit: Square dimensions (equal width and height). 8-bit image depth, or equivalently, gray scale (FiberFit will not work on color images). Approved file formats include jpeg, png, tif, gif, or bmp.

### Procedure:

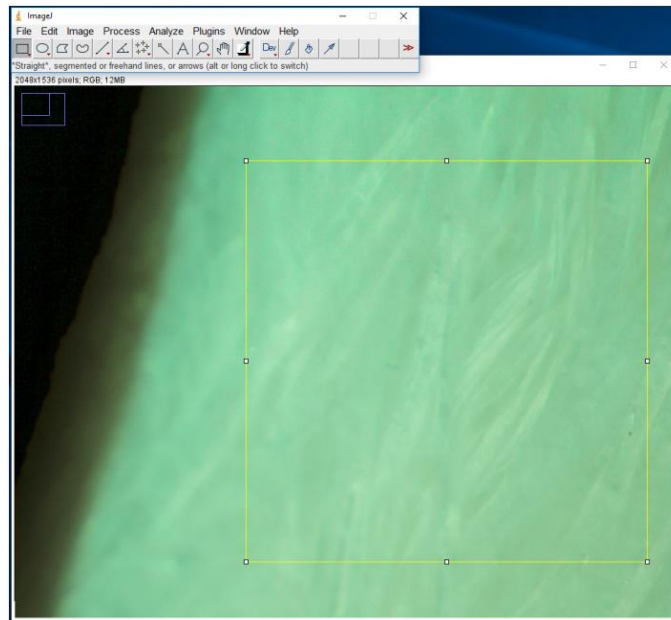
Step 1: Open ImageJ software

Step 2: Open the image

- File>Open

Step 3: Select the region of interest\*

- Use the rectangular selection tool (already selected by default) to select the general area to be analyzed



\*When making the selection, note that irregularities like glare and shadows will affect the results of FiberFit. Take extra care that you select a good sample area to measure.

Step 4: Edit selection to square dimensions

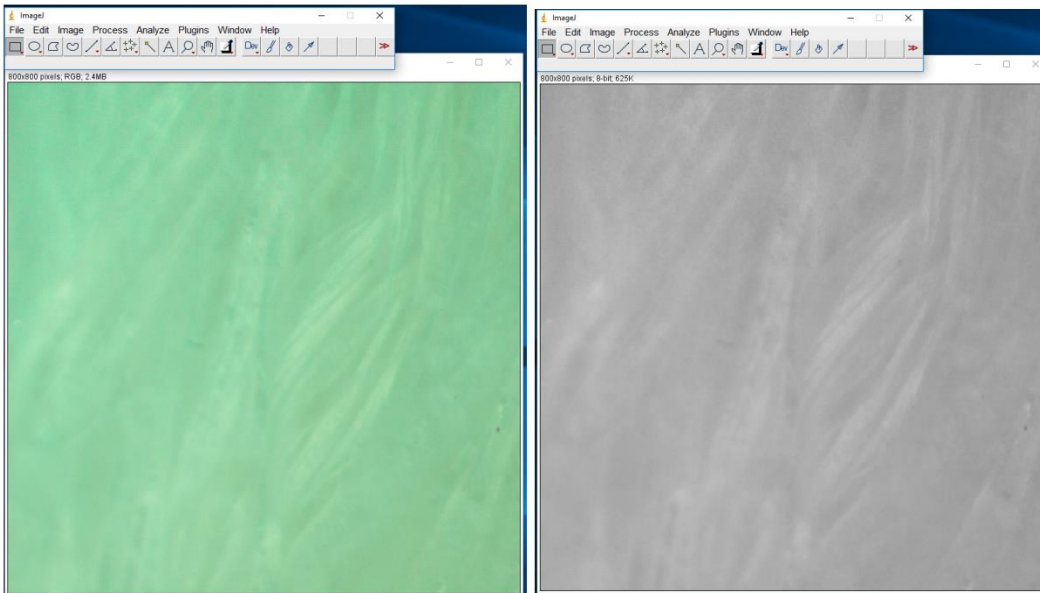
- Edit>Selections>Specify>adjust values so Width and Height are equal

Step 5: Crop the image

- Image>Crop

Step 6: Convert to 8-bit grayscale

- Image>Type>8-bit
- The image should look similar to the figure on the right at this point



Step 7: Save image

- File>Save As
  - \*Approved file formats include jpeg, png, tif, gif, or bmp

Step 8: Open FiberFit and import previously saved ImageJ image