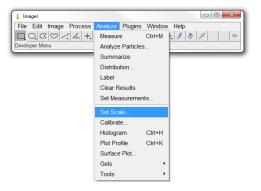


## **Assign Scale Bars Manually**

a) Open the image you wish to amend.

🛓 ImageJ		
File Edit Image	Process A	nalyze Plugins Window Help
New	•	A & M Dev Stk & & X >>
Open	Ctrl+O	selections (right click to switch)
Open Next	Ctrl+Shift+O	
Open Samples	•	
Open Recent	•	
Import	•	
Close	Ctrl+W	
Close All		
Save	Ctrl+S	
Save As	•	
Revert	Ctrl+R	
Page Setup		
Print	Ctrl+P	
Quit		

b) With the image open, select Analyze, then Set Scale.



- c) In the box provided, select the following values, then select **OK**.
  - i. Distance in pixels:
    - 1. For HSI images:
      - a. 60X this is **4.69**
      - b. 100X this is **7.81**
    - 2. For Optical (Dage) images:
      - a. 10x this is
      - b. 60x this is **8.10.**
  - ii. Known distance: 1
  - iii. Pixel aspect Ratio: 1.0
  - iv. Unit of length: **um**

🔬 Set Scale					
Distance in pixels: 7.81 Known distance: 1 Pixel aspect ratio: 1.0 Unit of length: um					
Click to Remove Scale					
Scale: 7.81 pixels/um					
OK Cancel Help					

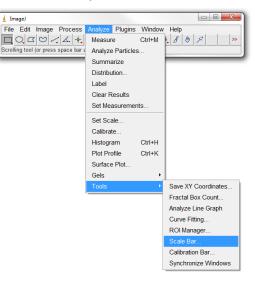
HSI: Magnification / Pixel Size = x / 2 (binning) = Distance in Pixels 100/6.4=15.626 / 2 = 7.81 60/6.4=9.375 / 2 = 4.69

Optical: Magnification / Pixel Size = x / 2 (binning) = Distance in Pixels 60/

## **Scale Bars in ImageJ**



d) Next, select Analyze, then Tools, Scale Bar.



- e) In the box provided, select the following values, then select **OK**.
  - i. Width in um: 10 is generally a reasonable value, but edit as needed
  - ii. Height in pixels: 4 is generally a reasonable value, but edit as needed
  - iii. Font size: 14 is generally a reasonable value, but edit as needed
  - iv. Color: Choose desired color
  - v. Background: Choose desired color
  - vi. Location: Choose desired location



f) After selecting OK, you will be presented with the image with the scale bar added. Make sure to save the file before closing as the files with the added scale bar is not automatically saved





## **Assign Scale Bars Using Macros**

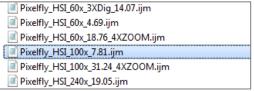
a) Open the image you wish to amend.

🛓 ImageJ		
File Edit Image F	rocess Analyze Plugins	Window Help
New	• A 🔍 🖑 🗾	Dev Stk 🔏 🕭 🔎 🛛 🚿
Open	Ctrl+O selections (right clic	k to switch)
Open Next Ctrl	+Shift+O	
Open Samples	•	

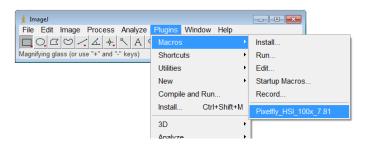
b) With the image open, select Plugins, then Macros, then Install.

⊈ ImageJ File Edit Image Process Analyze	Plugins Window Help	
	Macros •	Install
"More Tools" menu (switch toolsets or add too	Shortcuts •	Run
	Utilities •	Edit
	New •	Startup Macros
	Compile and Run	Record
	Install Ctrl+Shift+M	
	3D •	About Startup Macros
	Analyze	Save As JPEG [j]

c) Next, select the macro for the camera and magnification used to capture the image.



d) Now again select **Plugins**, then **Macros**, and you will see the macro you selected at the bottom of the macro menu. Click on the macro.



e) After selecting the macro, you will be presented with the image with the scale bar added. Make sure to save the file before closing as the files with the added scale bar is not automatically saved

