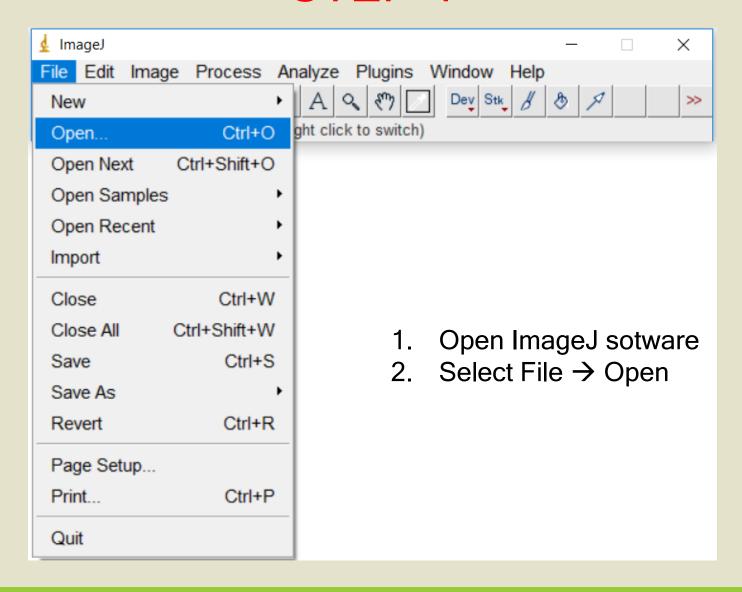
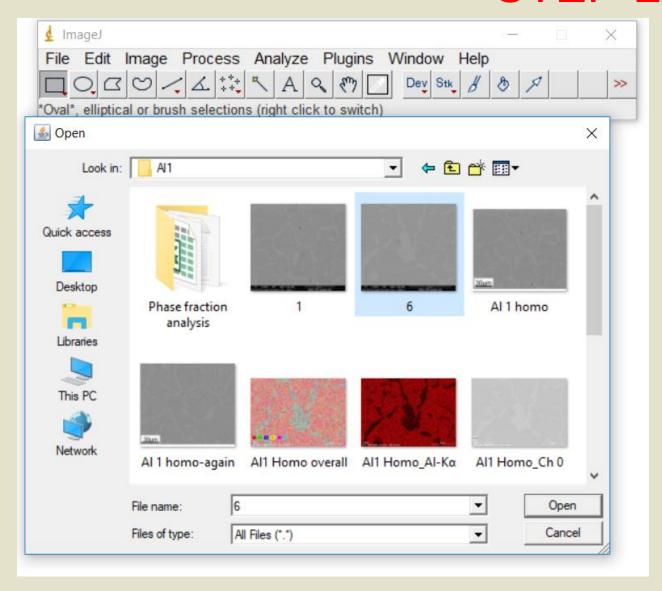
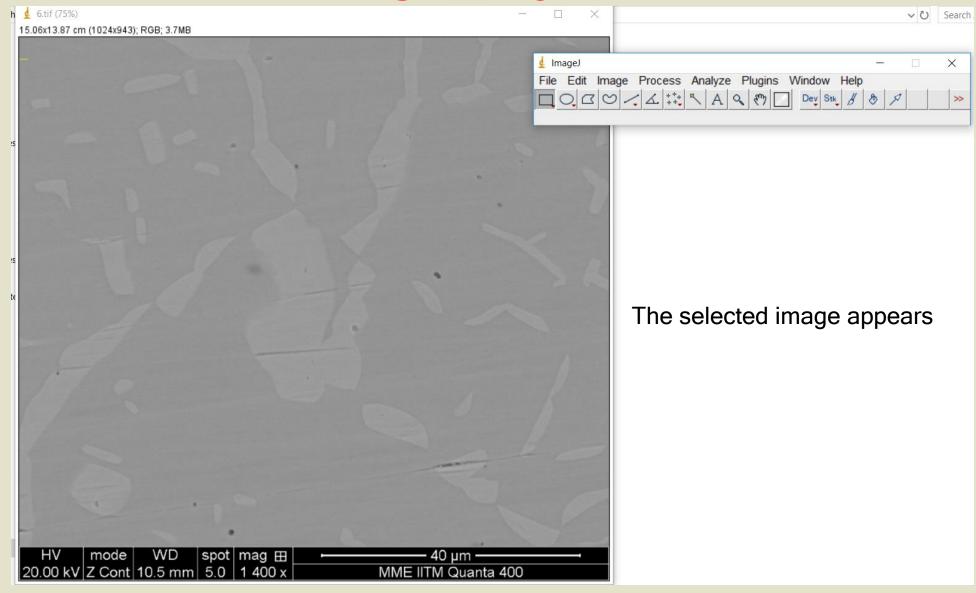
Phase fraction calculation of microstructure using ImageJ

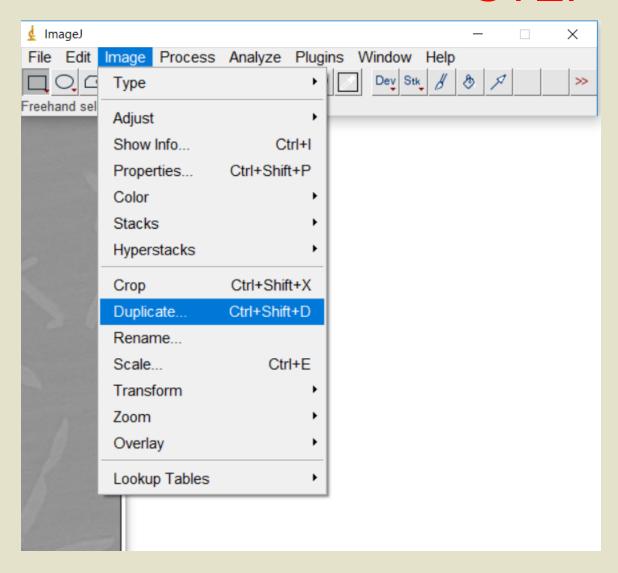
BY HARIHARAN V S



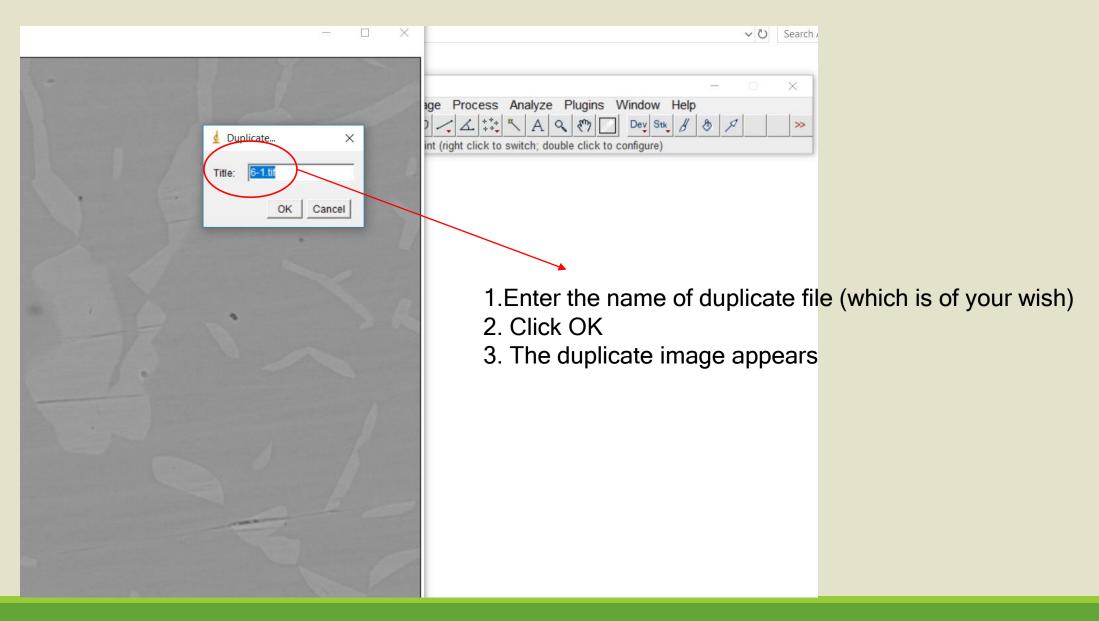


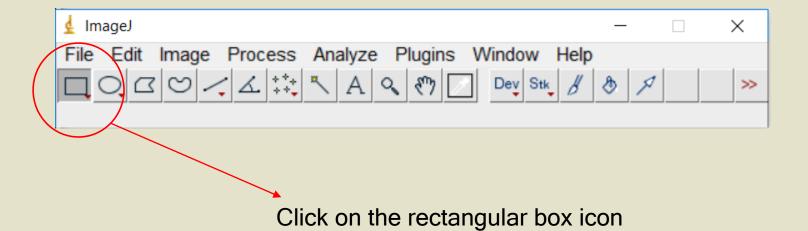
- 1. Select the required file
- 2. Click Open

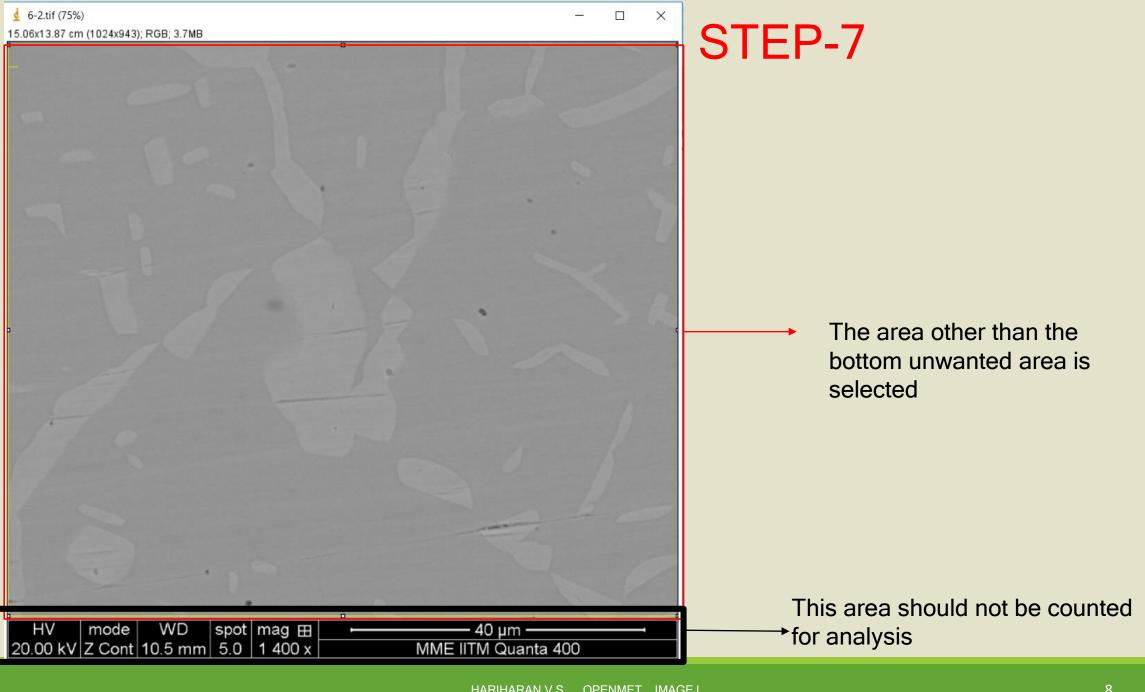


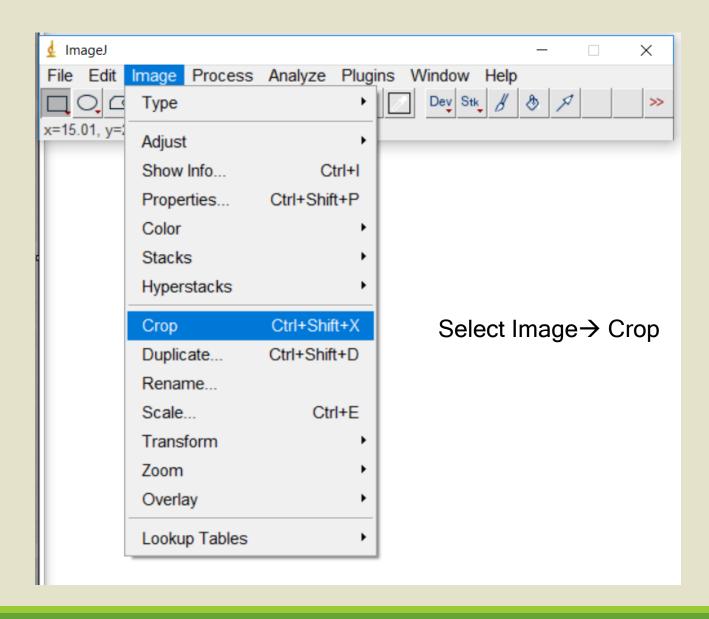


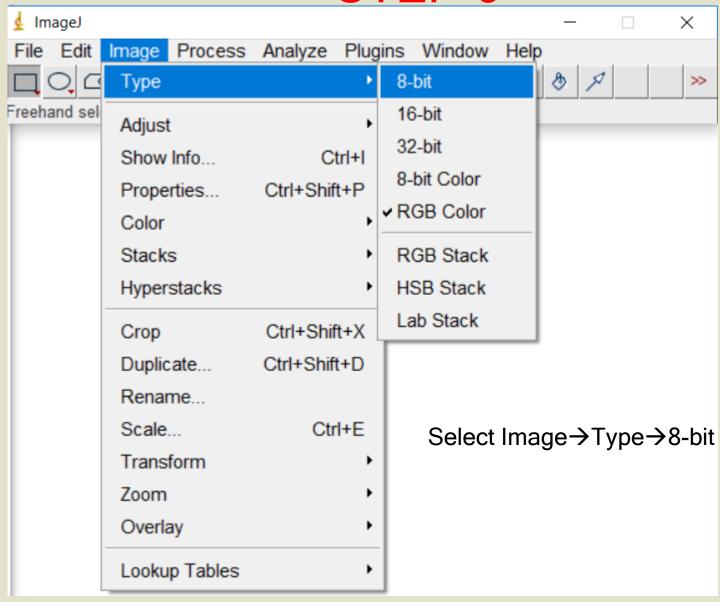
- 1.Select Image → Duplicate
- 2. Another copy of the image is created and file name prompt appears

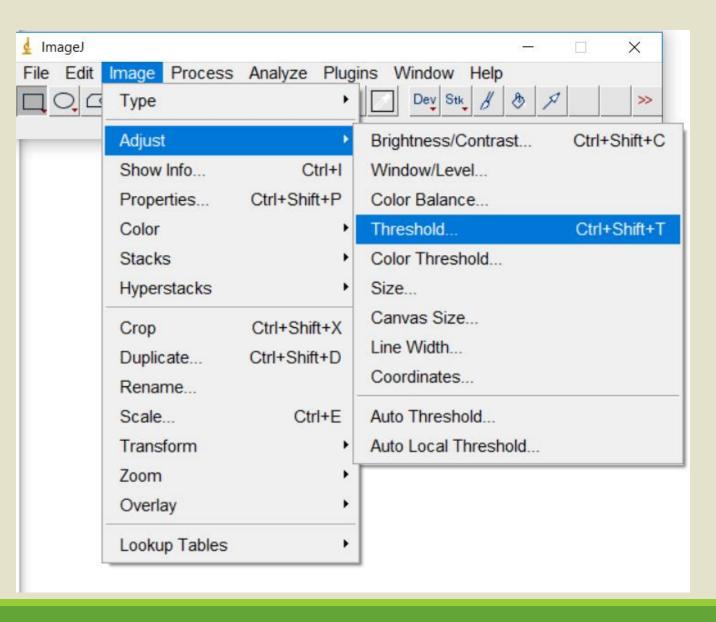




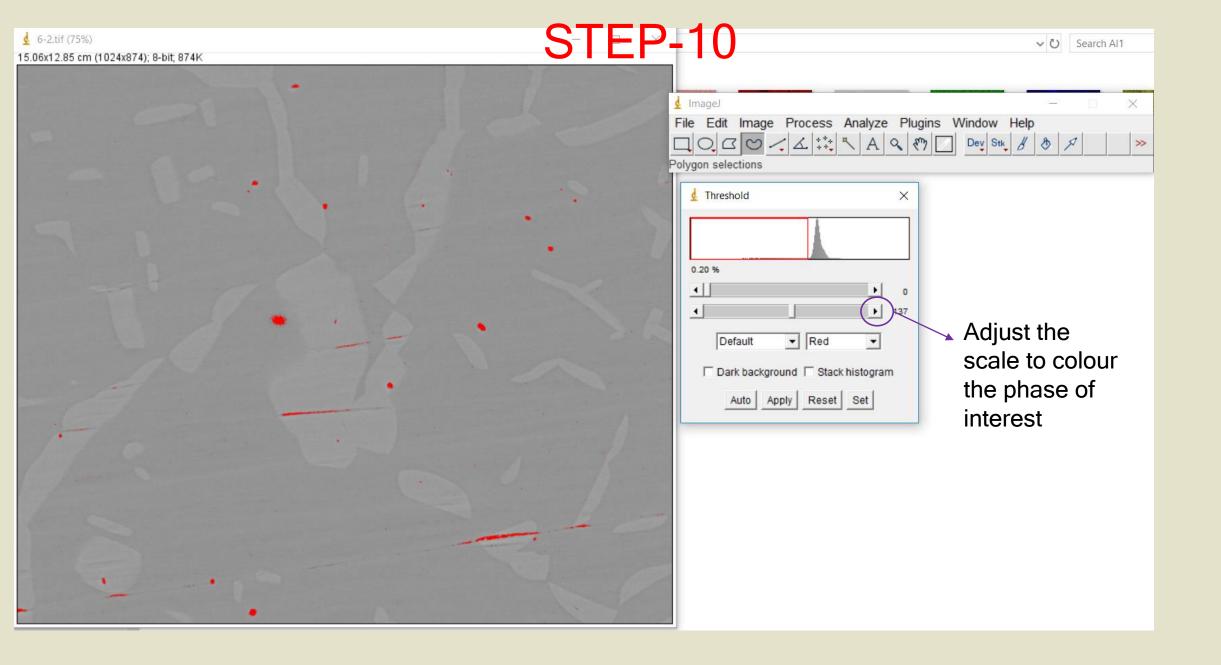


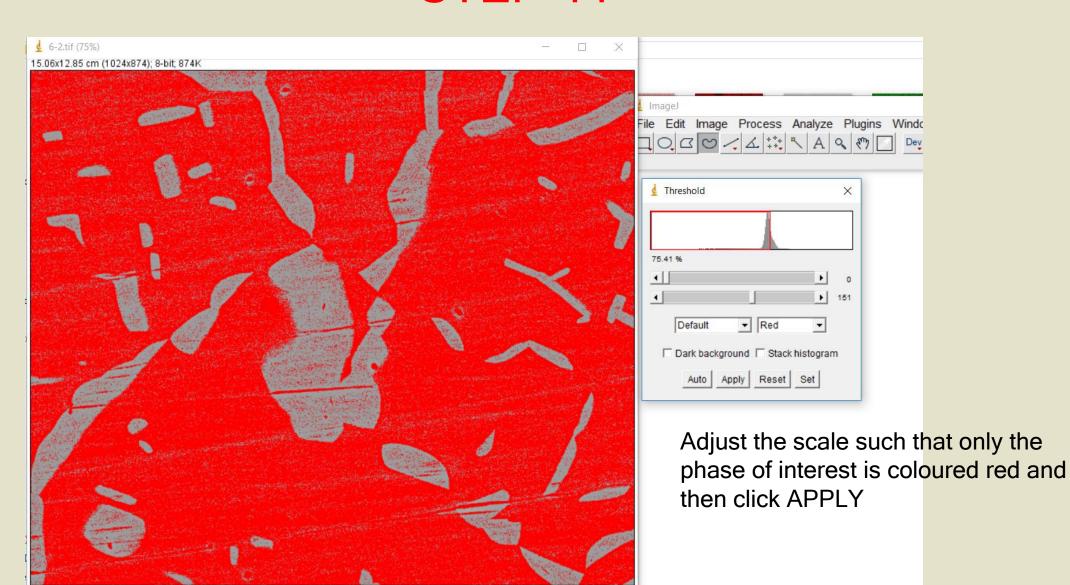


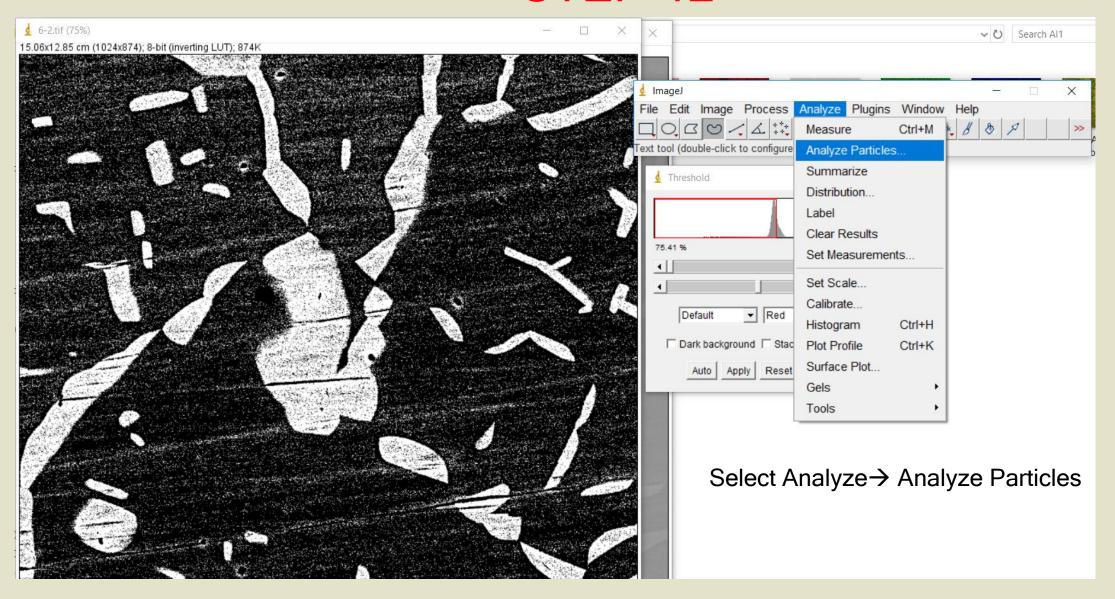


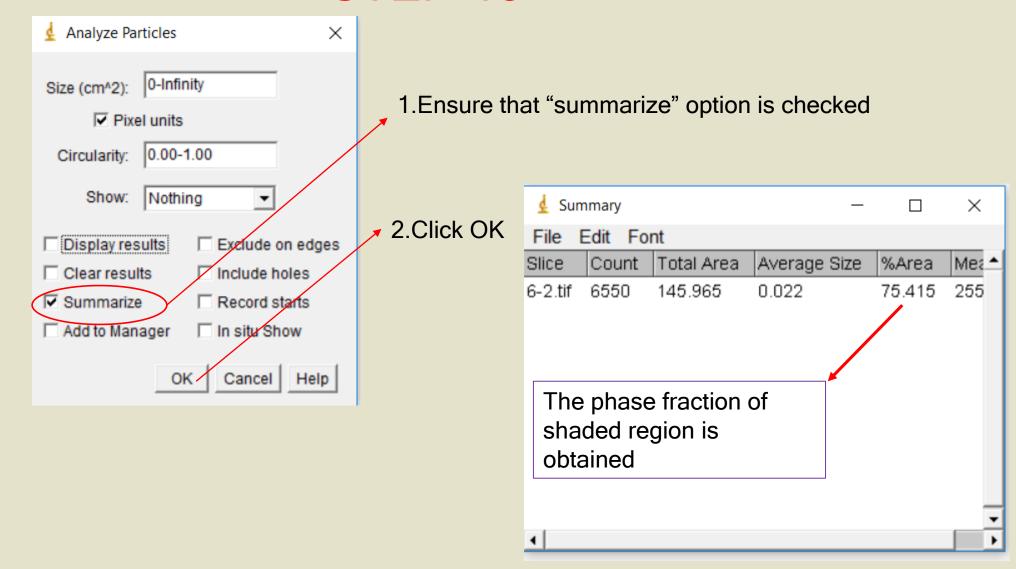


Select Image → Adjust → Threshold









CAUTION

- ❖The above procedure should be carried out for a large number of images taken in the same magnification and the average value should be reported.
- ❖The obtained phase fraction will vary for different threshold values. Hence, it is necessary to choose the optimum threshold value which shades only the region/phase of interest.
- The images chosen for analyses should be clear and free of scratches.
- ❖If the phases don't have a sharp contrast difference, it will be difficult to get accurate results.