

Ohisto_arteries (ImageJ macro)

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Macro for detecting and measuring external (ex: adventis) and internal (ex: intima) perimeter and area of a ring-like structure (ex: artery)

INPUT:

Structure of the data to be analysed:

- Color images (green, red, blue) with .tif extension from Leica DMD.

Modifications to do within the script:

- BEWARE the scale calculation is made for the Leica DMD 108 histology microscope, you can change the values of "myscale" variable (in μm for 1000 pixels).

OUTPUT:

- Result file (default: analyse.txt) with image names, area and perimeter for both external and internal circles
- Image files (imagename_ANAL) with the analysis ROI to visually check the analysis.

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Step 1: Select zoom

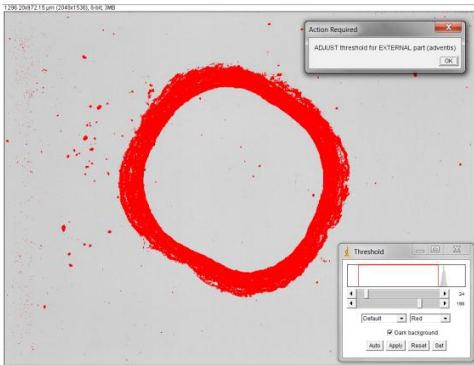


Step 2: Choose an image

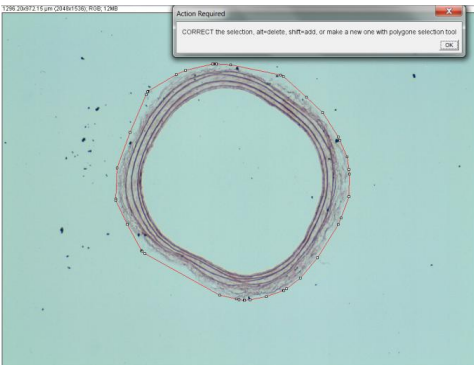


Step 3:

Adjust threshold for external detection

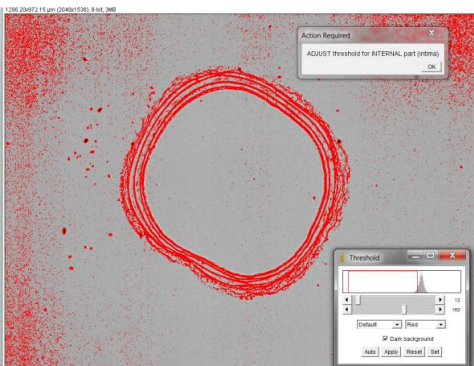


Step 4: Correct selection



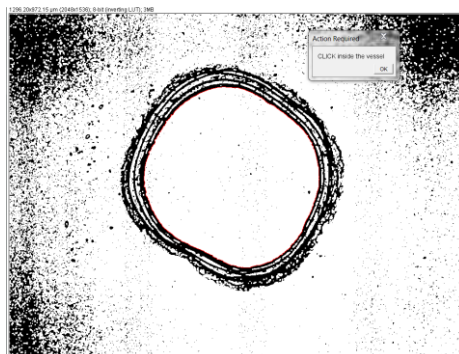
Step 5:

Adjust threshold for intima detection



Step 6:

Click inside the vessel to select intima



Step 7: Correct selection



Creation of an image with the 2 perimeters in black



Step 8: Three choices:

- OK
- No, save the results
- Cancel

Macro is aborted (values are still in Results window, Line1 =external, Line2=intima, Line3=discard)

Results are formatted (1 image/ line, in Log window) and saved in "analyse.txt"

