

README POLARIZING LIGHT

First: Introduce the three scripts in the folder where all the images taken with polarizing light are placed.

Whats in the folder: There are three scripts:

- Area_thin_fibers.m : Script of a function that measures green area corresponding to the thin fibers.
- Area_thick_fibers.m : Script of a function that measures red and yellow area corresponding to the thick fibers.
- Area_measure_polarizing_light.m : Script that reads all the images in .tif format of the folder and measures the area of thin fibers (running Area_thin_fibers.m) and the area of thick fibers (running Area_tissue.m). It saves the results in a .csv file on the same folder. It's recommended to run ">> Results" on the Command Window to visualize it in MATLAB.

Implementation: Set the MATLAB directory to the folder where the images and scripts are. RUN ONLY 'Area_measure_polarizing_light.m' :

Open 'Area_measure_polarizing_light.m' on MATLAB and press Run. The results will be automatically saved on a .csv file named 'Area_measure_polarizing_light.csv'

Changes: You can adapt these scripts to your studies making all changes needed like changing the name of the csv file or even setting new filtering functions by Color Threshold.