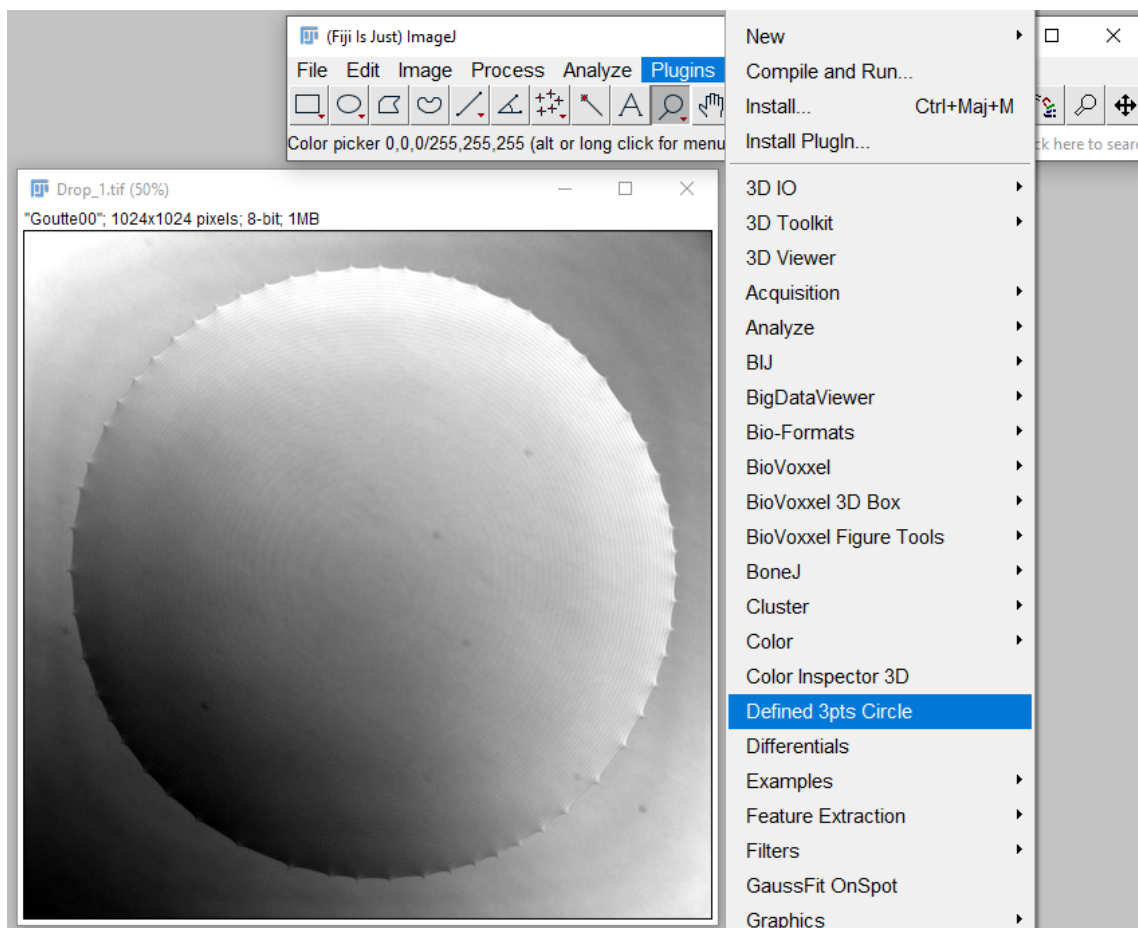


Tutorial: Defined 3 pts Circle plugin (v1.0)

Description: to propose a tool able to calculate the parameters (X and Y coordinates of the center, the radius) of a circle defined by 3 points placed on the image by the user. **Results:** two data tables.

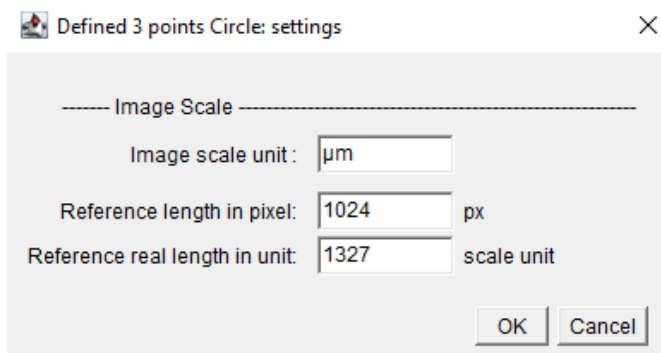
Step 1: import the plugin in ImageJ/FIJI. Restart ImageJ/FIJI.

Step 2: open the image and then select the Defined 3pts Circle plugin.

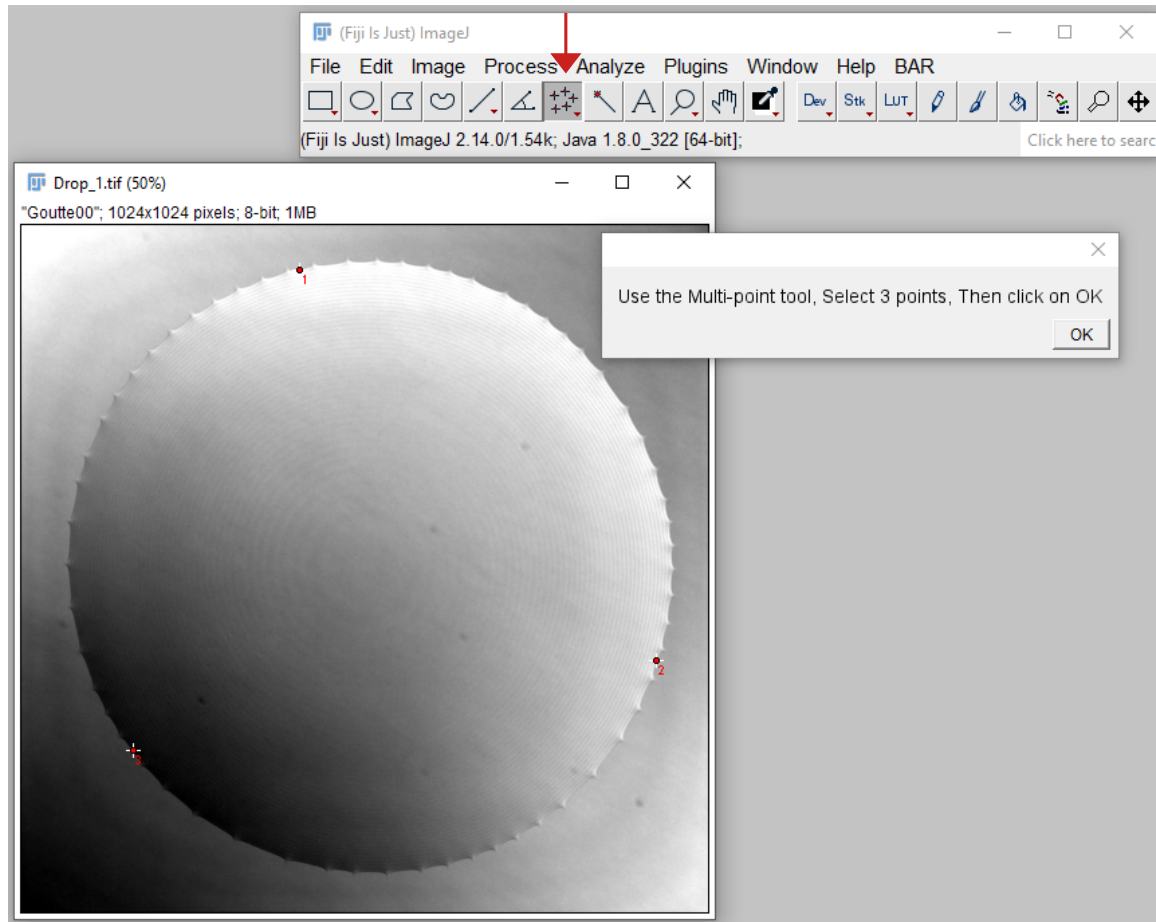


Note: image of a drying 0.2 μl deionized water sessile drop acquired via a microscope (x10 objective, camera: 2048x2048 pixels, binning 2)

Step 3: fill in the fields with the appropriate information, then click OK.



Step 4: select the "Multi-point" tool and choose three points on the image, then click OK.



Results: two tables are generated.

The 'Results' window displays a table with the following data:

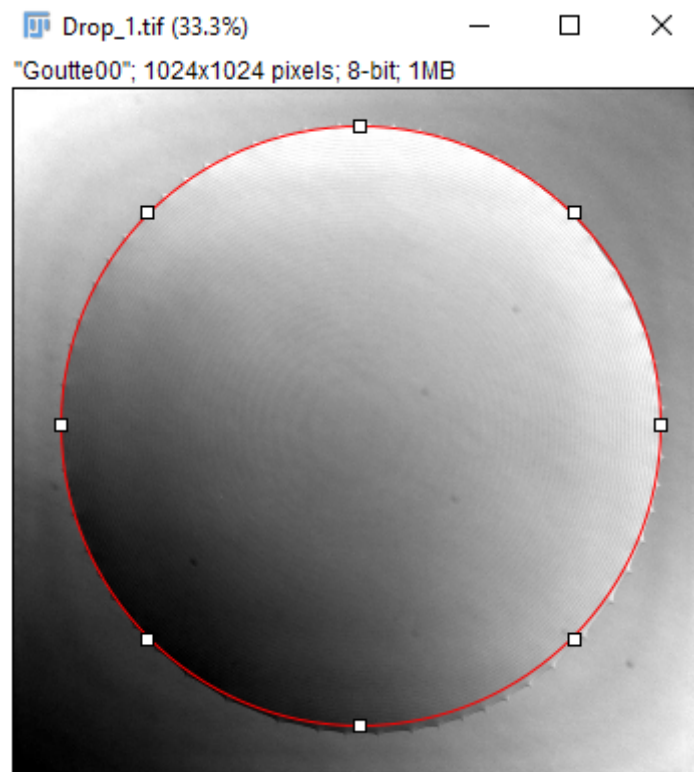
	X	Y
1	414.000	66.000
2	945.500	647.500
3	165.500	781.500

"Results" contains the coordinates (in pixel) of the 3 chosen points

The 'Defined 3 points Circle: parameters' window displays a table with the following data:

Circle center X in pixels	Circle center Y in pixels	Circle radius in pixels	Circle center X in μm	Circle center Y in μm	Circle radius in μm
519.244	503.455	449.937	672.887	652.427	583.073

"Defined 3 points Circle" contains the X and Y coordinates and the circle's Radius (given in pixel and in the chosen unit scale)



The circle is automatically drawn on the image. If it is saved by ImageJ and reopened (in ImageJ) the circle will be kept on the image.

Plugin limitations: 8 or 16 bits grey image; developed on ImageJ 1.54 K (may not work properly on earlier version).

If this plugin is used in your application and research, please reference it in your paper.