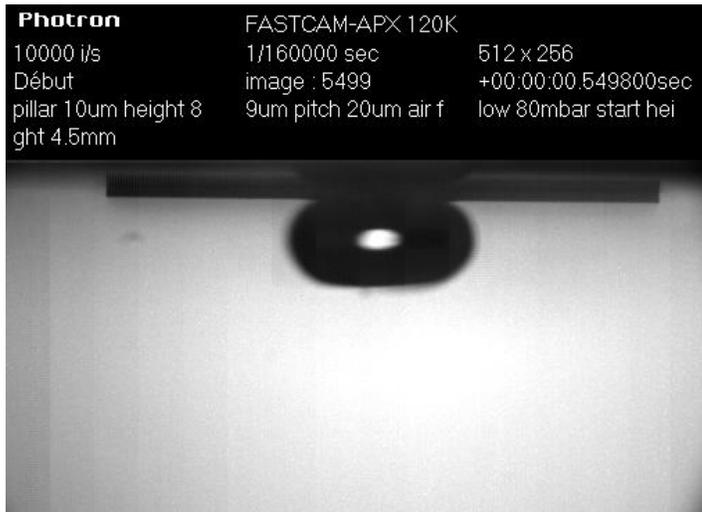


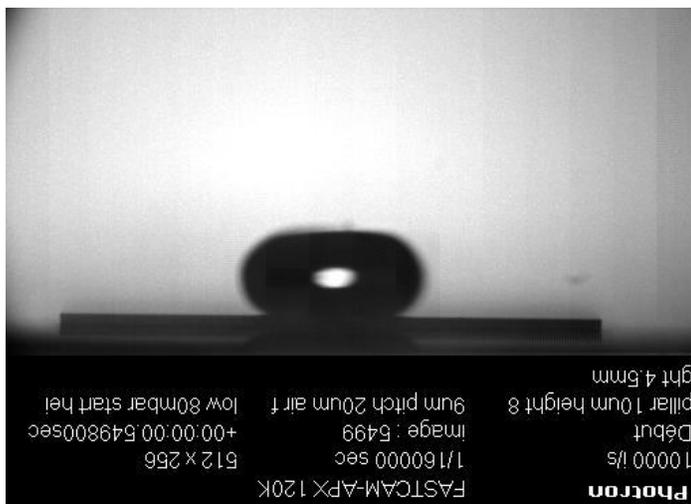
Contact angle measurement on sequences with DropSnake v2.0

In order to install the plugin, extract it in the plugin folder of ImageJ.

1. Open the sequence with ImageJ (File-> import -> image sequence)



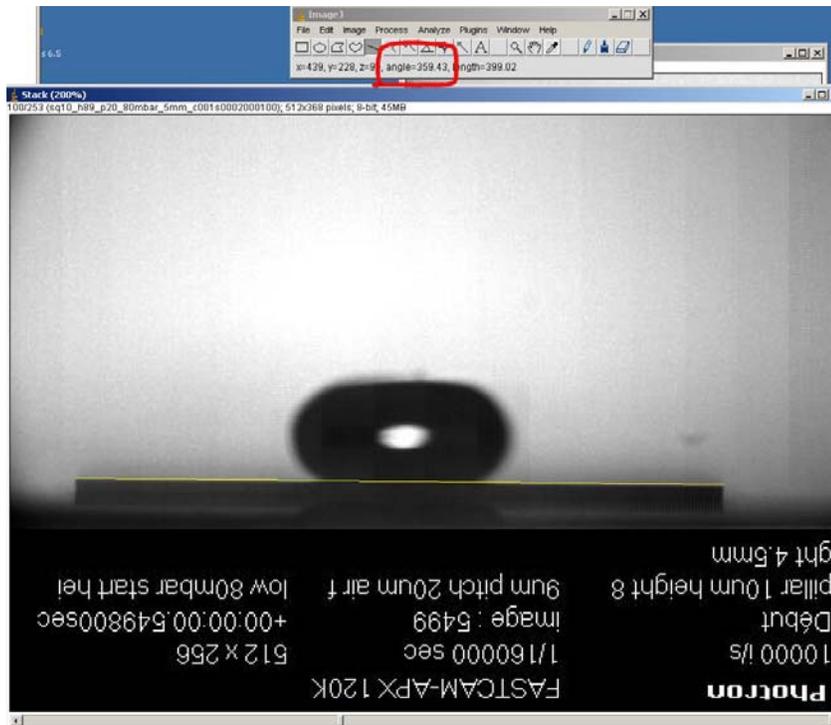
2. The drop should be above the surface (if necessary rotate the stack with Image > Rotate > Arbitrarily > 180°)



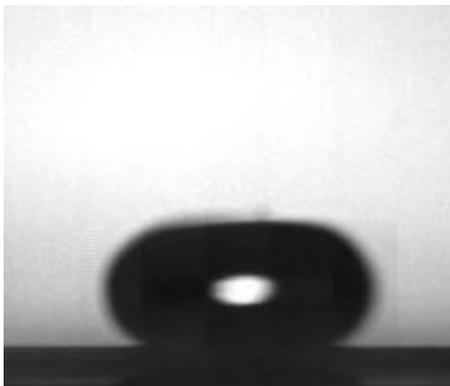
3. Adjust for small tilt angle

It is recommended to run the dropsnake on sequences using a non-symmetric spline(point 6). In the non-symmetric mode, the snake can adjust the interface knot position only horizontally. Thus for best results, the drop interface should appear as horizontal as possible on the image. Correcting for small tilt angle is not necessary when using a symmetric-spline.

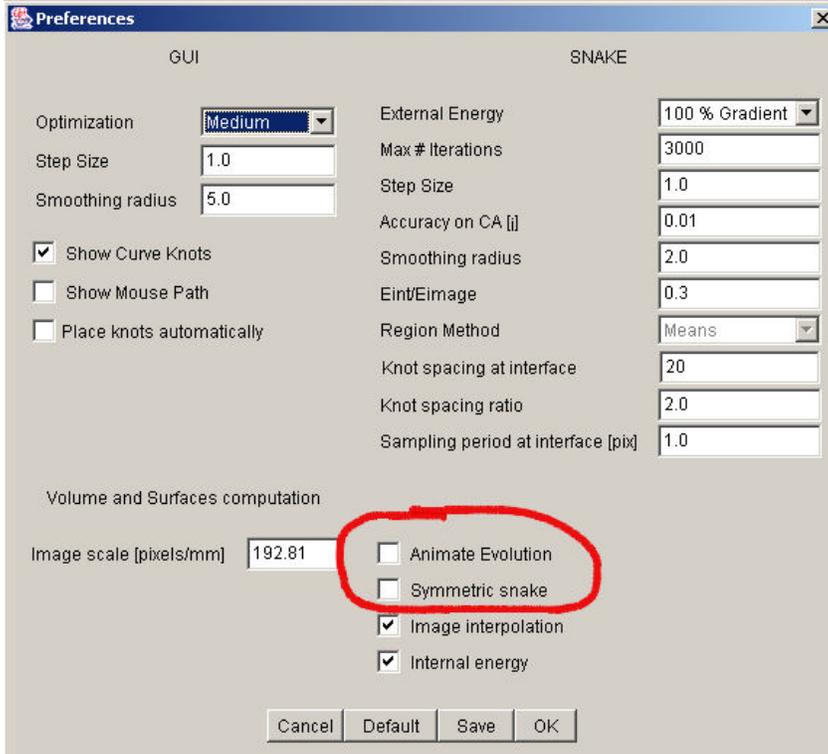
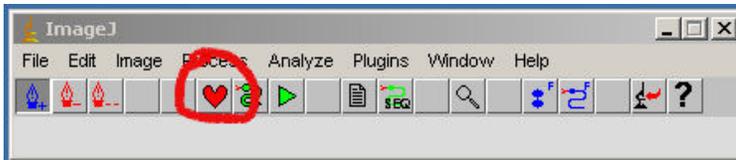
Use the line tool to determine the tilt angle of the surface with the horizontal axis (the angle of the line with the horizontal axis is displayed while the mouse button is held) then use Image > Rotate > Arbitrarily to correct it.



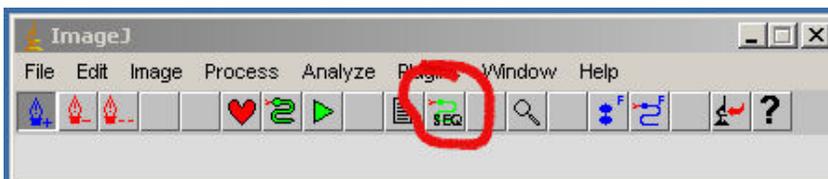
4. For computational effectiveness it may be useful to crop the image to the region of interest: Draw the ROI with the rectangle tool then Image > crop



5. The DropSnake can now be launched. (plugin > drop_analysis > DropSnake)
6. Ensure that symmetric snake is unchecked in the snake parameters panel. Deactivating Animate evolution may also increase rapidity.



7. Write down the number of the last slice of interest.
8. Go to the first slice of interest and draw the initialization contour with the Enter/move knots tool. (start from the left contact point of the drop, place a few knots along the drop contour and place the last control point at the right contact point then double click anywhere to close the snake. See the dropsnake manual for more details)
9. Launch the snake sequence on the actual curve.



10. When asked, give the number of the last slice of interest. The snake will start on the active frame and will analyze every frame until the last slice of interest.