Processing data:

1. Upload PNGs to Image-j for batch editing
2. **Slice** excess images off end of stack (rig touches drag shield)
3. **Rotate** image to align mid-line of wedge to horizontal axis of screen
4. **Crop** images to wedge with front and back lines of test cell in view (for stabilization)
5. **Stabilize** camera movement during first moments of drop using *image stabilizer* plug-in
6. Adjust **contrast**: using *Process/Enhance Contrast* adjust contrast to 25% with *using stack histogram* checked. Usually satisfactory. Too much contrast washes out threshold in some images while not enough can cause some grey-*ish* pixels from backlight to convert as black during threshold analysis (causing false/challenging tracking). So proceed with caution.
7. **Export** images to *Y:/Experiments/Data* folder associated with the respective drop number
   1. **Remove** *stabilized* from beginning and **include** *\_Frame*  at end
   2. 3 zeros at end of name
8. Upload edited PNGs to Spotlight for threshold tracking
9. Set scale using respective scale image from *Y:Projects/DropletJumpWedge/Repos\_ScaleFactors*
10. Set frame rate
11. Use *automatic threshold tracker* on front and back profile
    1. Select *automatic threshold tracker*
    2. Select *AIO options*, check *constrain AOI to line*. Constraint line should be either horizontal left or right, thanks to step I.2. If this step was skipped, the constraint line will need to be adjusted according to test cell angle dimension.
    3. Select *process sequence*
       1. Set *threshold* to value that allows profile to be adequately shaded.
       2. Check *inverse* box
       3. Some contrast enhancement may be necessary along with adjustments in threshold percentage to allow for automatic tracking. Adjust as needed.
    4. Place tail of tracking arrow to edge of droplet (front or back according to region of interest)
    5. Measure distance *h* from top surface to bottom surface at the threshold of the droplet for the beginning frame using *line profile* and record
       1. Use value to compute Initial Location of droplet relative to wedge vertex (*i.e.* )
    6. Set folder path and name using *Track/Results* tab
       1. Name should include drop number, volume, angle, initial location and threshold region as shown by *XXXXX\_XXoXmL\_XXoXdeg\_XXoXmm\_front/back.txt* where *X* is an integer
       2. After setting file path, you **MUST** choose *view* in the results dialogue box and then select *yes* to generate the file.
       3. Press *OK*