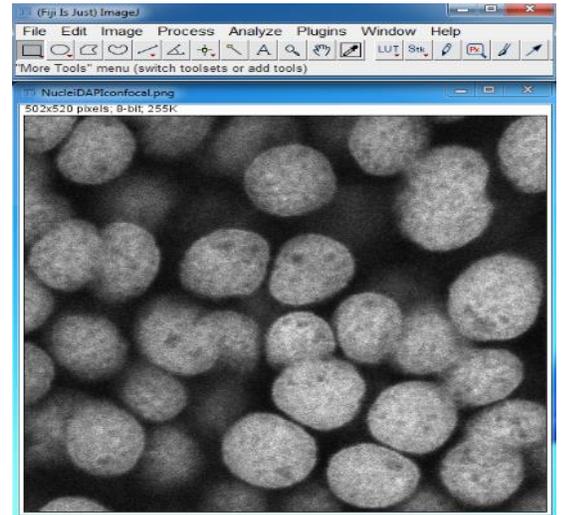


FIJI Particle Analysis Procedure

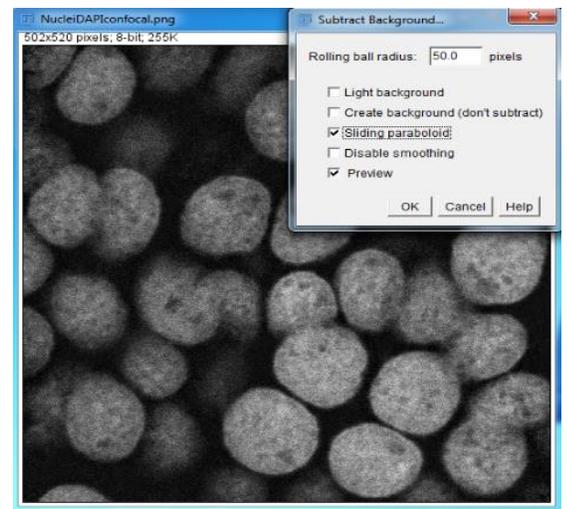
- Load NucleiDAPIconfocal.png
 - You may need to convert to 8-bit.
 - Image from:

http://imagej.net/Nuclei_Watershed_Separation



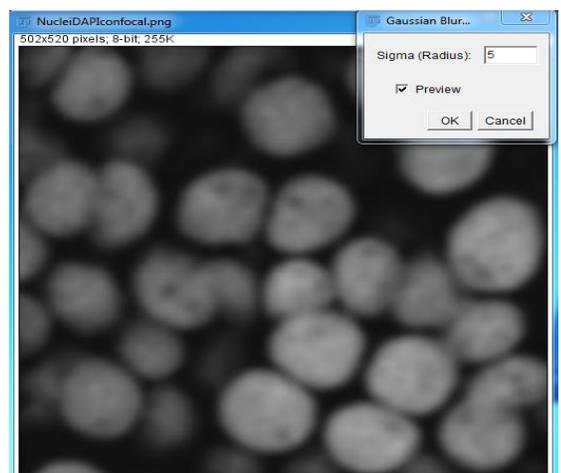
1. Process -> Subtract Background...

- Use Preview
- Try sliding paraboloid
- Adjust rolling ball radius



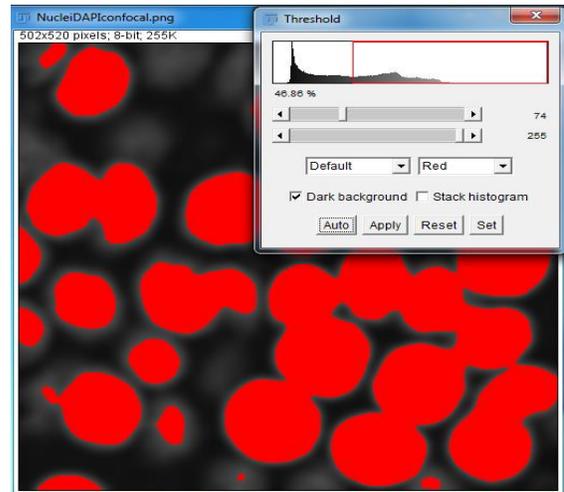
2. Process -> Filters -> Gaussian Blur

- Use Preview
- Adjust Sigma (blur effect)
- This smooths the nuclei



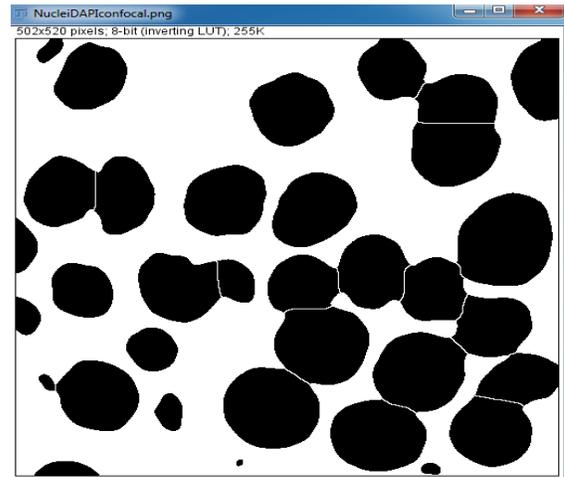
3. Image -> Adjust -> Threshold

- Use Dark Background
- Apply
- This creates an image mask



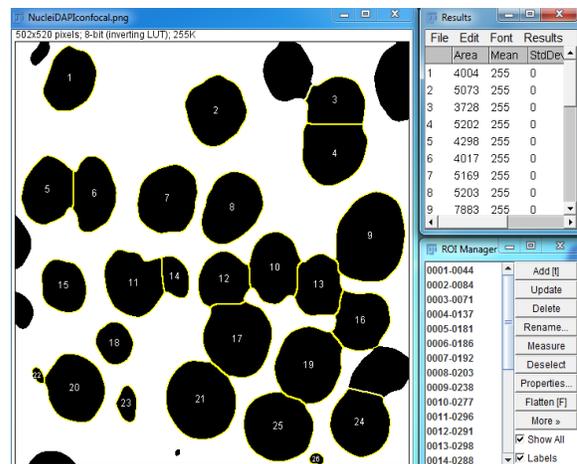
4. Process -> Binary -> Watershed

- This will split nuclei



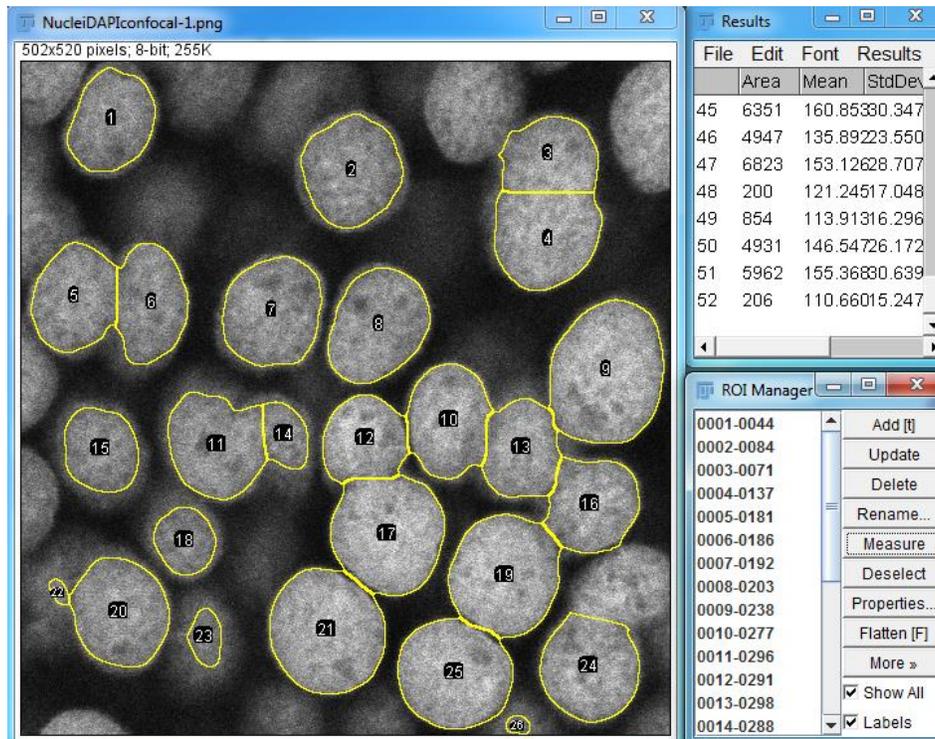
5. Analyze -> Analyze Particles

- Adjust Size Range
- Adjust Centricity
- 0 is a line, 1 is a circle



6. Reopen NucleiDAPIconfocal.png

- Select overlays from the ROI manger individual overlays or ctrl+A to select all
- Measure
- Copy results to excel

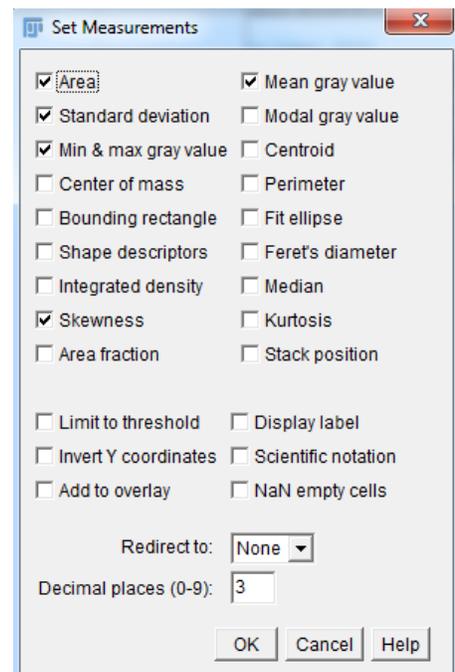


The screenshot shows the ImageJ interface with a grayscale image of nuclei. The ROI Manager window is open, showing a list of ROIs and a 'Measure' button. The Results window is also open, displaying a table of measured data for the selected ROIs.

Area	Mean	StdDev
45	6351	160.85330.347
46	4947	135.89223.550
47	6823	153.12628.707
48	200	121.24517.048
49	854	113.91316.296
50	4931	146.54726.172
51	5962	155.36880.639
52	206	110.66015.247

7. Analyze -> Set Measurements

- Select properties to measure



The screenshot shows the 'Set Measurements' dialog box in ImageJ. The dialog box is open, showing a list of measurement properties with checkboxes. The 'Area' checkbox is checked, and the 'Mean gray value' checkbox is also checked. Other options include 'Standard deviation', 'Min & max gray value', 'Center of mass', 'Bounding rectangle', 'Shape descriptors', 'Integrated density', 'Skewness', 'Area fraction', 'Limit to threshold', 'Invert Y coordinates', 'Add to overlay', 'Redirect to', and 'Decimal places (0-9)'. The 'OK' button is highlighted.