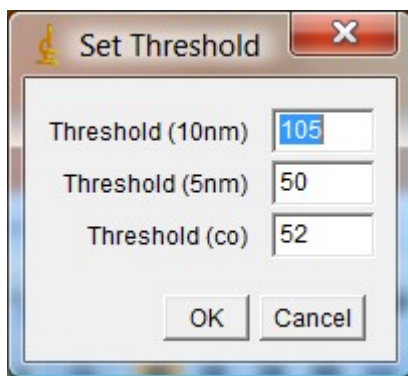


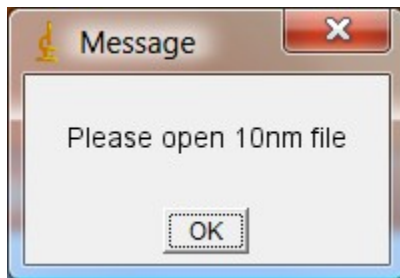
Install CoLocalization plugin by copying “CoLocalization_*.java” to ImageJ’s plugins directory and then click “Plugins/Compile and Run...”, and select “CoLocalization_*.java”. Restart ImageJ and there will be an item “CoLocalization” in the plugins menu.

The following are instructions of using this “CoLocalization” Plugin

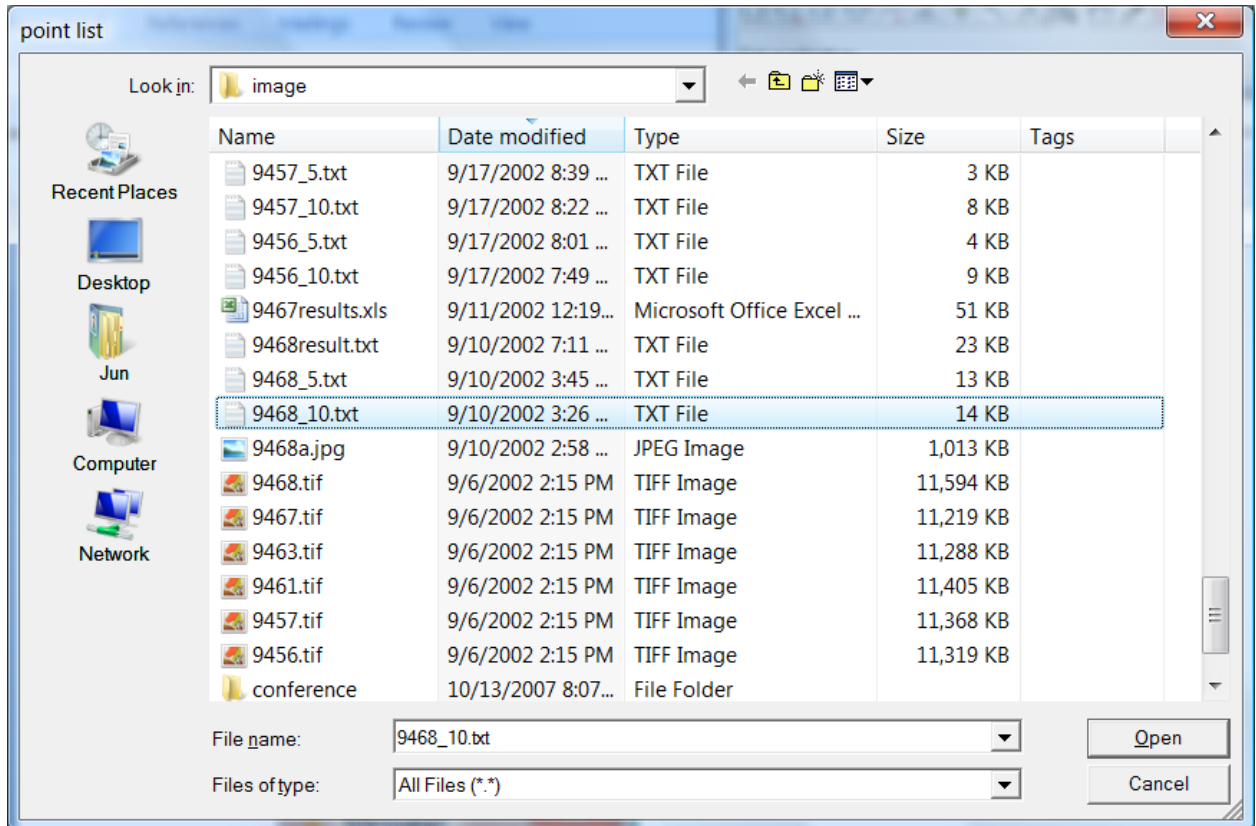
1. Open a TEM image in ImageJ. If this image is not 8bit, convert it to 8bit by clicking “Image/Type/8-bit”.
2. Click “Plugins/CoLocalization”, the following dialog will show up.



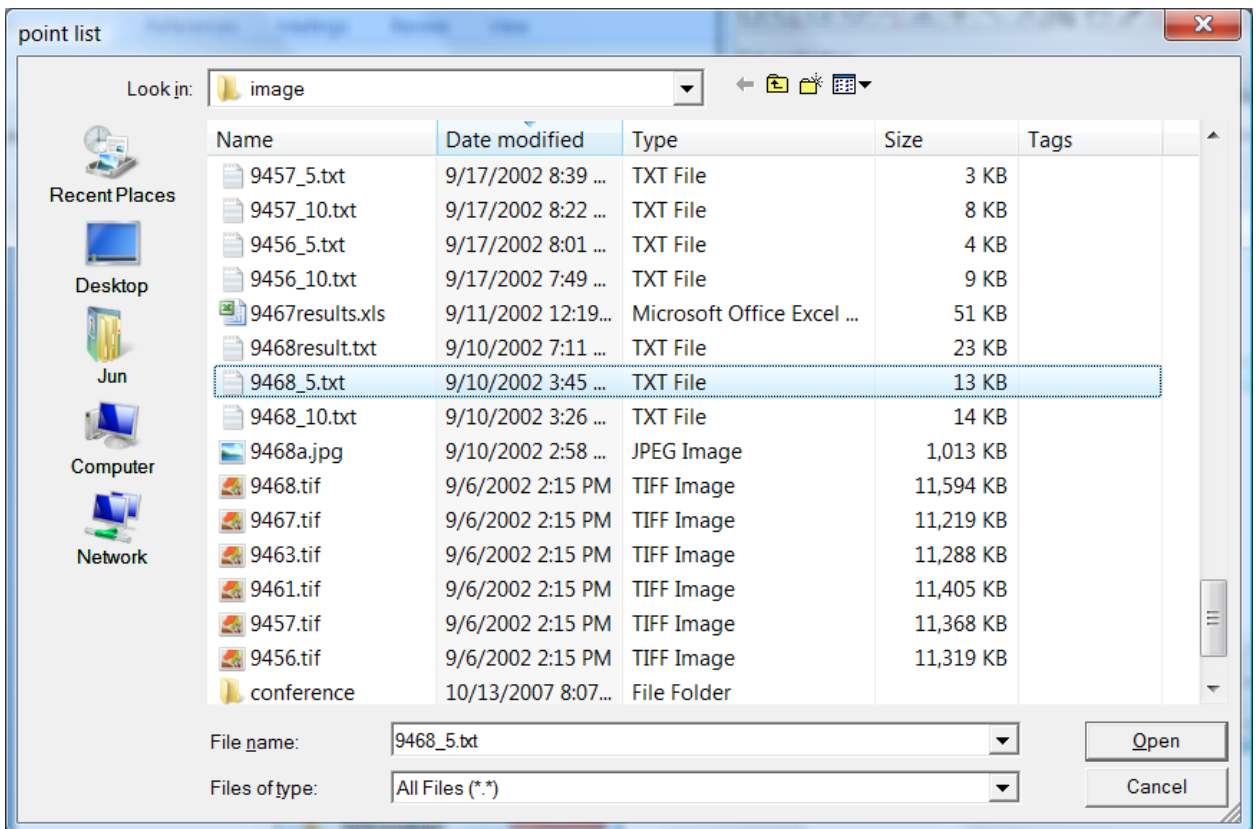
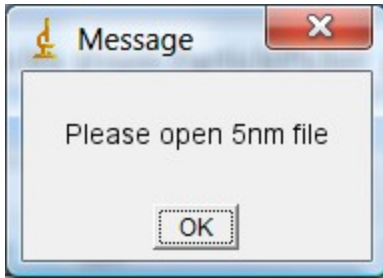
3. After setting thresholds (in pixels) for clustering and co-clustering, click “OK”.



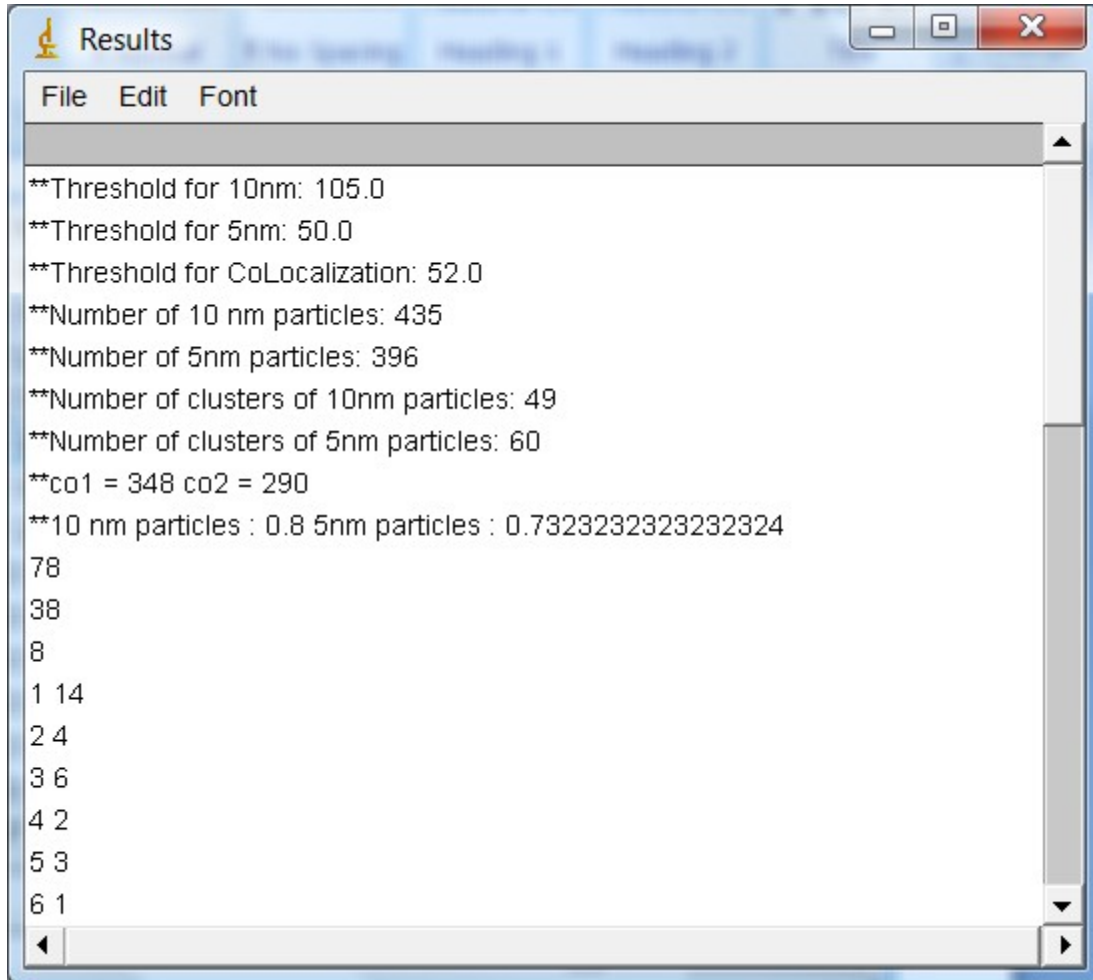
4. Open a file containing coordinates of 10 nm particles (From ParticlePicker plugin).

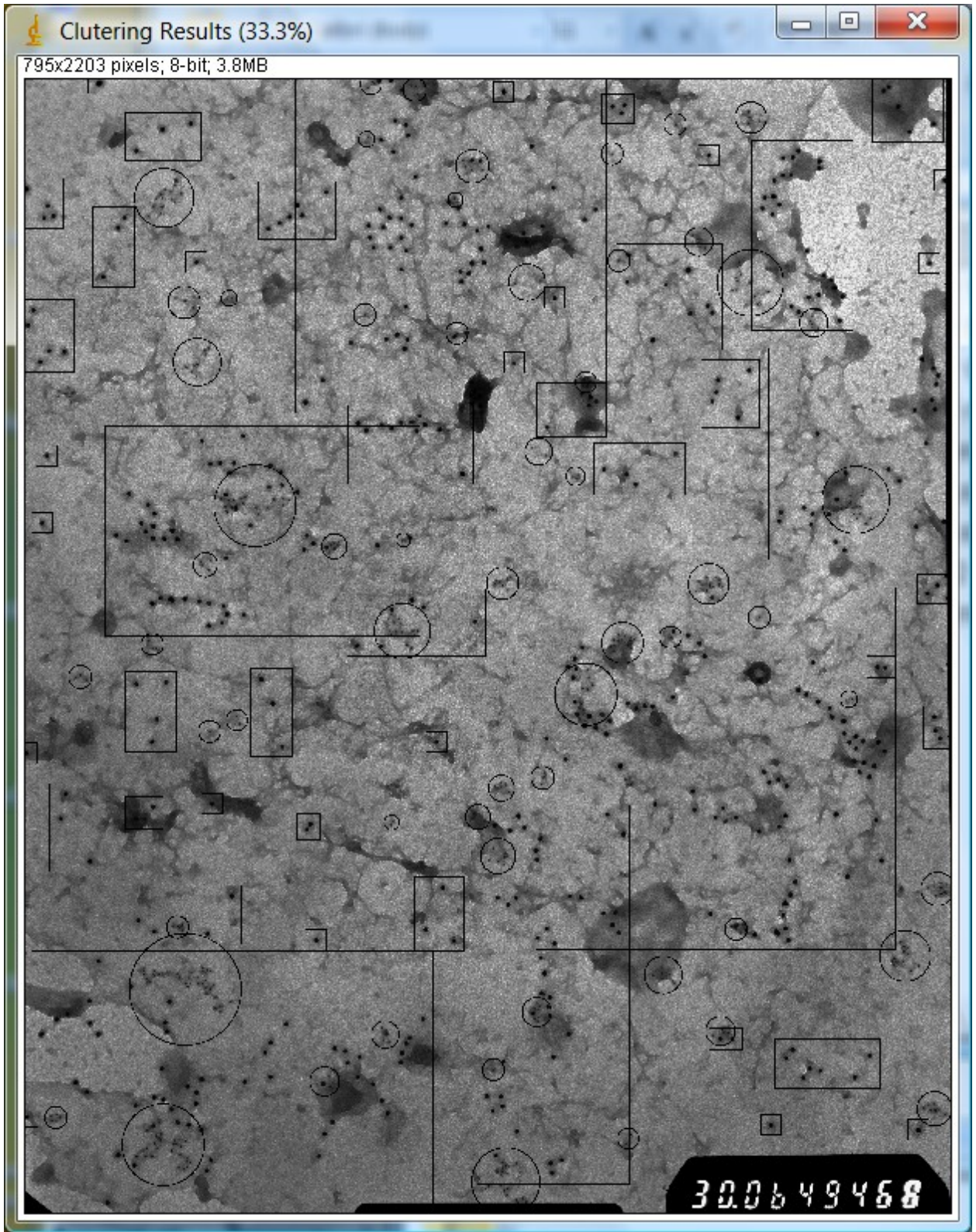


5. And then open a file containing coordinates of 5 nm particles.

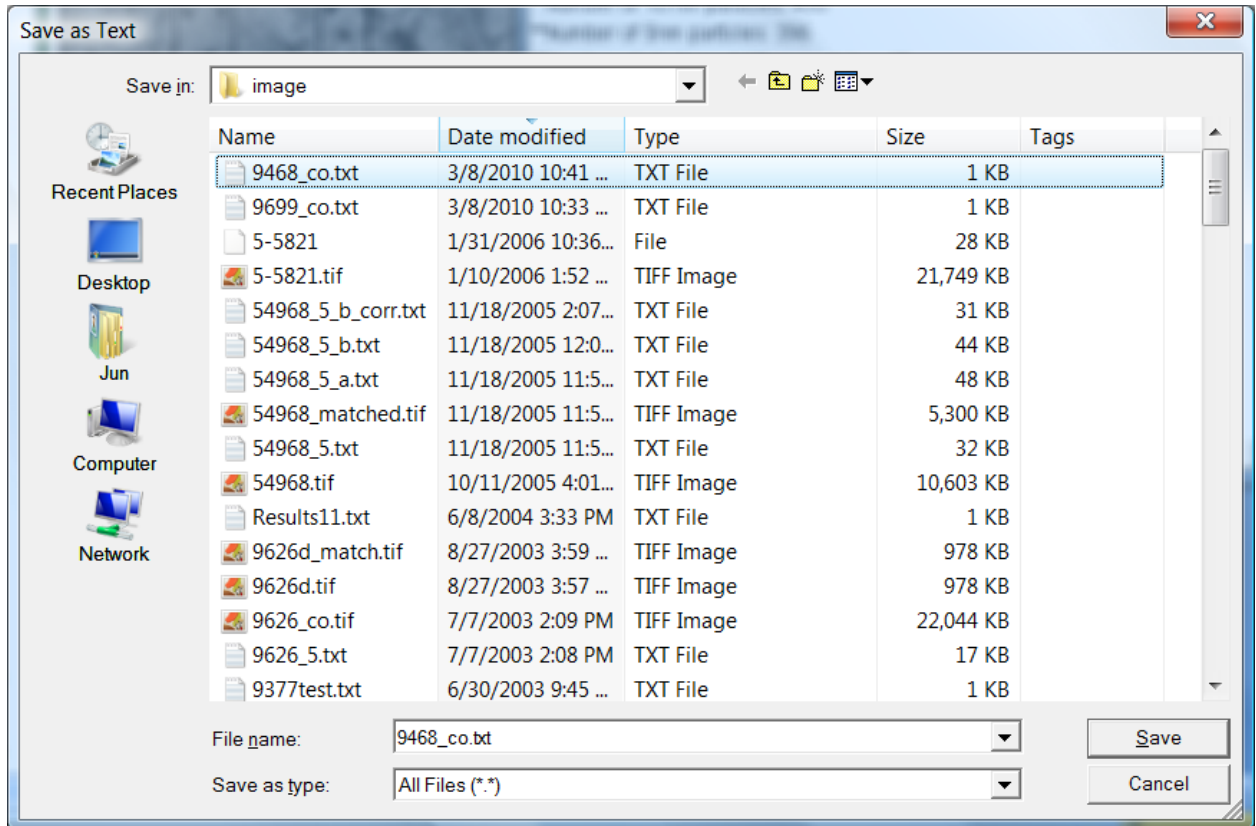


6. Two windows of results will show up.

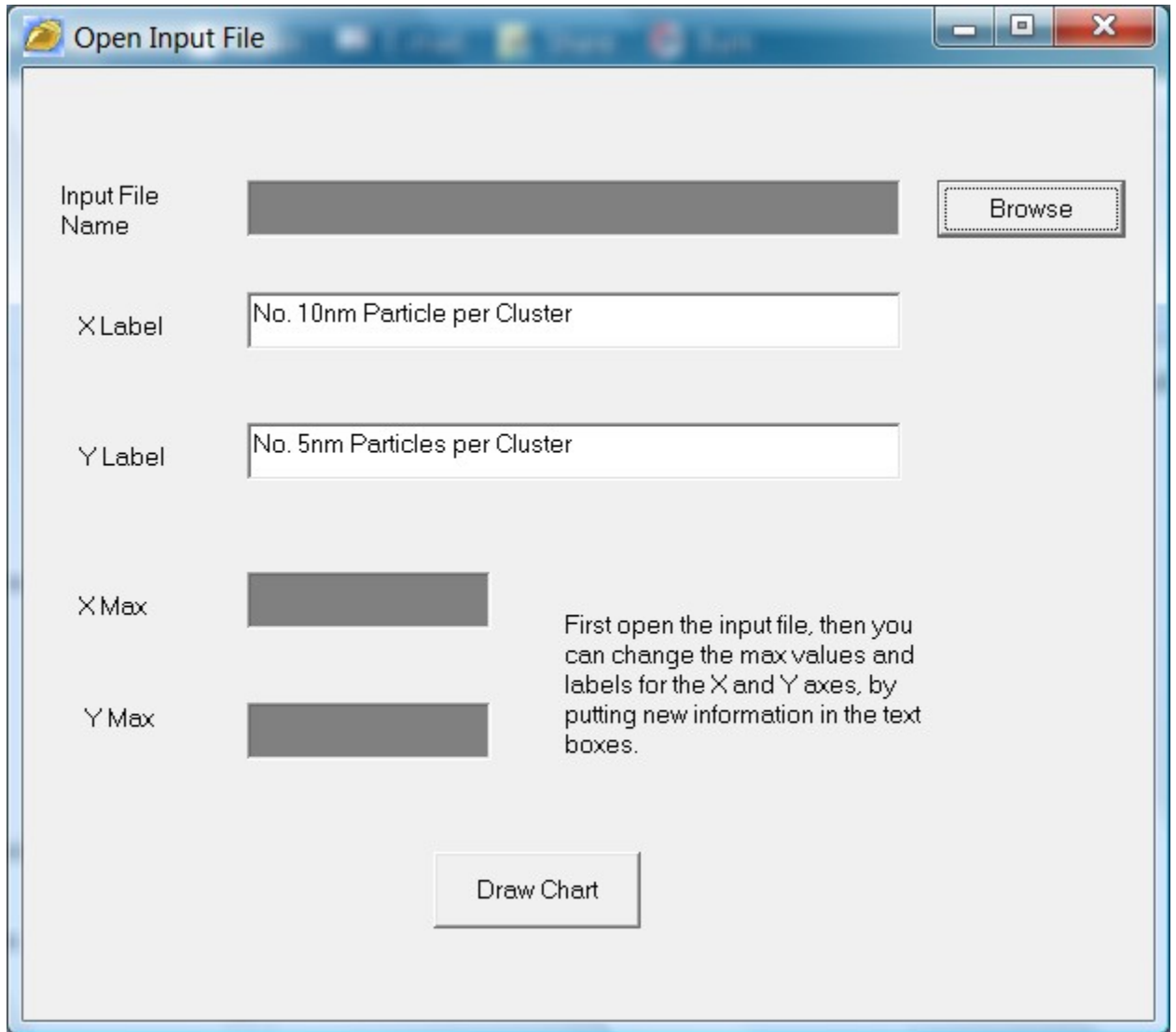




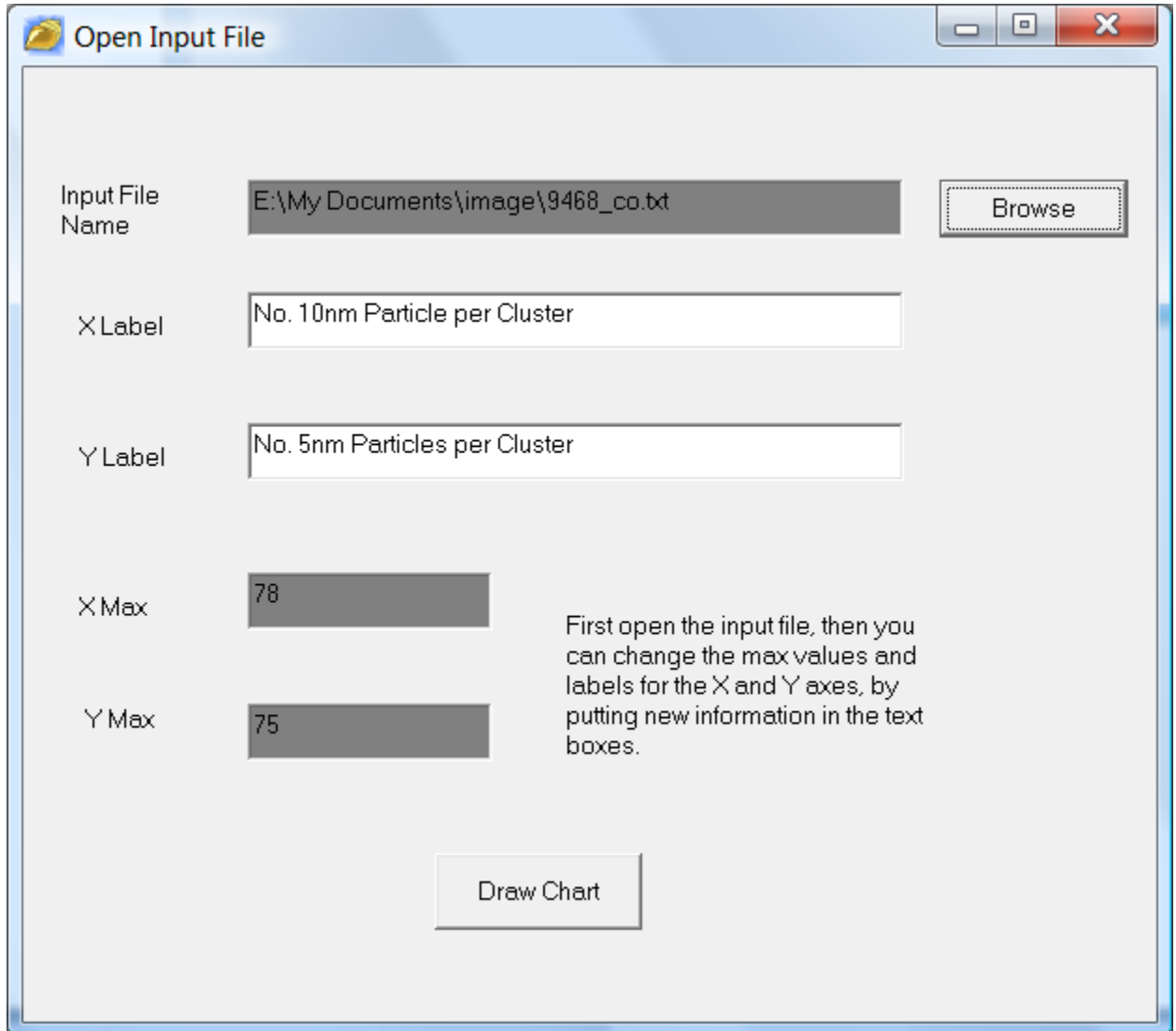
7. Save the result in the first window by clicking “File/Save as...” of that window.



- Open the resulting file (9468_co.txt) in Colocalchart.exe to draw a diagram of co-clustering.



9. Click "Browse" to select the input file.



Open Input File

Input File Name: E:\My Documents\image\9468_co.txt

X Label: No. 10nm Particle per Cluster

Y Label: No. 5nm Particles per Cluster

X Max: 78

Y Max: 75

First open the input file, then you can change the max values and labels for the X and Y axes, by putting new information in the text boxes.

11. Click "Save" to save this diagram as a bitmap.