**Instructions for Modelling Surface and Getting Distances from Cell to Surface**

1. Cells must be tracked in before running the algorithm.
2. Go to the tab “Image Processing” and click “Model\_Surface\_And\_Get\_Distances”
3. You will be prompted for three parameters:
   1. The tracked cells object
   2. The channel of the surface to be modelled
   3. The intensity threshold to apply to the channel
4. The program will run after this. It may take up to fifteen minutes.
5. The stats are contained in two files:
   1. Distance From Modelled Surface
   2. Track Distance From Modelled Surface
6. To apply the “Good” and “Bad” labels to these files, open the Speed file and a track file, respectively, and copy and paste the labels.
7. To clean up the distance lines in the image, select the distance object and select the first tab .Then select Line Mode “Pairs” and uncheck “All Time Points” in Visibility.