Medical Image Processing Project

Two approaches

- 1) Deal with the MIPs (Maximal Intensity Projections): Apply algorithms to fit ellipse and give a confidence measure
- 2) Deal with raw files
 - Extract trajectories by tracking individual particles in the images

Track Points:

- Threshold image 1 to get a fixed number of points
- for each subsequent image:
 - Otsu threshold the image
 - o For each point that is being tracked,
 - find the point inside a window that minimizes following energy
 - E = a*intensityDiff + b*xDiff + c*yDiff + d*vxDiff + e*vyDiff;
 - Update vx, vy
 - Compare the trajectories with ellipse or other structures