Screening Protocol

Eucentric Height

• Find desirable square at LM Magnification/SerialEM Search Beam settings.



Go to SerialEM > take a Search picture of found square>then SerialEM top ribbon
Task>Eucentricity>Rough Eucentricity> wait for serialEM to finish measuring Z height, message in log window.



Focus Area and Defocus Target

- Take View Picture> Drag image to center on desired area/hole> take a View pic and drag till centered.
- Low Dose Control panel> select Area of Focus> click away from desired area/carbon area on current View Pic. Note this only needs to be done once when a new grid is loaded, as orientation of holes and carbon will change with each new grid.
- Go to Serial EM top ribbon> Focus/Tune > Set Target> -3um to start.
- Hit Autofocus button> wait for serialEM to measure/set desired Focus.



Final Picture

• Go to serialEM Camera panel>Hit Record

Map/Montage Full Grid

- Microscope setup LM62x, 150um C2 aperture, C2% set big enough to cover camera, set camera to .5 sec exposure, Bin 1 for high res map. Bin 4 for lower res map
- Open a navigator from serialEM top ribbon> Navigator> Open



• Top ribbon> Navigator>Montaging & Grids>Setup Full Montage

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Montage setup window will launch> Default setting > hit ok and save as LMM.st



• Go to to serialEM left tiles>Montage Controls> Start

