

## **Certified Users**

### **Guidelines for sample loading:**

- All samples will be loaded into the Titan Krios by cryo-EM staff only.
- Clipped grids need to be in the SMIF dewar the day before reservation time.
- Clipping the sample grids are the user's responsibility and not SMIF. SMIF staff will train users to clip grids when requested.
- The samples need to be removed from the SMIF dewar no later than one day after data collection.

### **Certified Users will be expected to:**

- Switch grids on the stage for screening.
- Look through regions of grid to determine good squares.
- Add areas to image once data collection via Latitude or EPU is set up by SMIF staff/Super user.
- Inform SMIF staff of any errors witnessed.
- Submit the cryoTEM parameters form for the cryoTEM data stream.

### **Certified users are allowed to:**

- Log into K3 computer via Team viewer to add more areas to image or to check on data collection.
- Ask for help from Super users and SMIF staff.
- Monitor image processing through the cryoTEM data stream.

### **Certified users are not allowed to:**

- Change any Latitude or EPU or Microscope parameters.
- Load or Unload the grids.
- Close the microscope interface.
- Enter the Krios room except to put grids in or out of the dewar.

## **Super Users**

### **Guidelines for sample loading:**

- All samples will be loaded into the Titan Krios by cryo-EM staff only.
- Clipped grids need to be in the SMIF dewar the day before reservation time.
- Clipping the sample grids are the user's responsibility and not SMIF. SMIF staff will train users to clip grids when requested.
- The samples need to be removed from the SMIF dewar no later than one day after data collection.

### **Super Users will be expected to:**

- Switch grids on the stage for screening.
- Look through regions of grid to determine good squares.
- Perform all required alignments, as outlined in the alignment process flow document.
- Collect atlas and set up data collection via Latitude or EPU.
- Add areas to image once data collection via Latitude or EPU is set up.
- Inform SMIF staff of any errors witnessed.
- Submit the cryoTEM parameters form for the cryoTEM data stream.
- Start cryoTEM data stream program.
- Support the cryoTEM community.

### **Super users are allowed to:**

- Log into K3 computer via Team viewer to add more imaging regions.
- Close and open Digital Micrograph if needed.
- Inform SMIF staff of any errors witnessed.
- Help certified users to set up data collection.
- Change Latitude/EPU or microscope parameters but must inform the SMIF staff, and return all parameters to the original state after the run.

### **Super users are not allowed to:**

- Load or Unload the grids.
- Close the microscope interface.
- Enter the Krios room except to put grids in or out of the dewar.