

X-ray microCT



1) Screening

Assess:

- Sample preservation
- Stain quality
- Orientation
- Presence of features



3) High-res Scan

- Localise features to image by EM
- Map adjacent tissue structures

Cutting, milling and sectioning



2) Mount/trim sample

- Select best samples
- Orient based on scan



4) Targeted sectioning

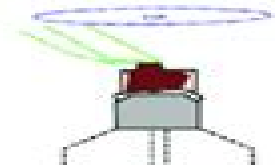
- Use x-ray data to steer sample preparation
- Predict frame size, location and how many sections are needed.

Electron Microscopy



5) TEM Imaging

- Cut precise sections for TEM.



5) SEM Imaging

- Collect 3D data before feature is visible on block face.

Biological Techniques In Electron Microscopy

Huangqi Zhang



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