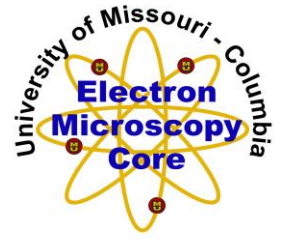




# Sample Collection for TEM



## *Prior to Sample Collection:*

- Discuss project with EMC staff
  - Direct all questions to DeAna Grant ([GrantDe@missouri.edu](mailto:GrantDe@missouri.edu))
- Pick up primary fixative, provided free of charge, from the EMC

## *Keys to Optimal Preservation*

- Always keep tissue hydrated with primary fixative
- Optimal Sample Size
  - 1mm<sup>3</sup>
- Proper Cutting Technique
  - Dissect tissue using a single continuous cut
    - DO NOT dice or mince tissue
- Completely fill sample tube with primary fixative
- Store samples at 4°C
  - DO NOT freeze tissue
- All samples returned via mail should be accompanied by an icepack

## *Post-Sacrifice Procedure for Animal Tissue*

1. Immediately remove desired tissue from animal and place on cutting surface with a drop of primary fixative covering the tissue
2. Trim the tissue to 1mm<sup>3</sup> using long, continuous cuts (DO NOT dice or mince)
3. Completely fill sample tubes with primary fixative
4. Transfer sample to each tube and leave at room temperature for 30 minutes
5. Store at 4°C (DO NOT freeze)
6. Deliver to the EMC for sample processing

## *Fixation of Cell Pellet*

1. Pellet sample per laboratory protocol
2. Remove supernatant and resuspend in primary fixative
  - a. 1 part sample to 10 part fixative
3. Incubate at room temperature for 30 minutes then store at 4°C until delivering to the EMC