## **Standard Operating Procedure: Staining with Uranyl Formate / Acetate**

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## **General Cautions**

- 1. Uranium salts are highly toxic and emit beta radiation. Always wear eye protection, gloves and lab coat when handling.
- 2. Limit wet-work to designated negative-stain bench to limit possible spread of material.
- 3. Use only designated pipetmen for handling liquid solutions.
- 4. If you are unsure of any procedure, consult with EMG staff.

## **SOP**

- 1. Any weighing of dry powder should be done in fume hood. You should wear a face mask to prevent inhalation of fine powder.
- 2. Always wear goggles when handling liquids, particularly when filtering solutions.
- 3. Before beginning experiment, be sure all required materials (pipettes, gloves, Whatman paper, paper towels, grids, grid box, forceps) are on hand. Be sure waste container is not overflowing.
- 4. Discard filter paper used to blot stain in regular lab waste (biohazard bags).
- 5. Discard tips in tip waste for eventual disposal with sharps.
- 6. Discard excess uranyl acetate/formate into designated liquid waste container. Do not mix uranyl salts with other hazardous salts (e.g. lead, osmium, etc).
- 7. Use pH paper to measure pH. Dispose in lab waste.
- 8. When experiment is completed, discard all waste. Do not leave a messy bench for the next user.