Preparation of Mouse Brain for Biochemical and Histological Analysis

- 1. Euthanize mouse and dissect out the brain.
- 2. Place entire brain on a cold dissecting surface, such as a petri dish filled with ice and covered with wet filter paper. Rinse the brain with cold PBS, then hemisect the brain by cutting in the sagittal plane.
- 3. Snap freeze one hemisphere in a 1.5 mL tube by lowing it into liquid nitrogen; store at -80°C for future biochemical analysis.
- 4. Place the other hemisphere into a 15 mL conical tube containing 10 mL of 10% formalin for fixation. Gently agitate the brain for 2 hours at room temperature.
 - After fixation, wash the brain 5 x 5 min in PBS.
- 5. Store the brain hemisphere at 4°C until the tissue can be processed in an automated tissue processor. Following tissue processing, embed the brain in paraffin wax for future sectioning.