

# <u>Standard Operating Procedure</u> for **Cylinder Test for Lateralized Movement in Mice**

# 1.0 <u>PURPOSE</u>

This procedure describes how to test for directional preference in voluntary locomotion. Mice have a preference for moving in one direction after 6-OHDA is infused unilaterally into the medial forebrain bundle.

2.0 <u>SCOPE</u> (Should include which Cores this SOP applies to) This procedure applies to all personnel who will test mice using the accelerating rotor-rod within the Stem Cells Engraftment and *in vivo* Analysis Core.

# 3.0 <u>PROCEDURE</u>

### 3.1 Apparatus The testing apparatus is a Plexiglas cylinder 15cm in diameter and about 40cm in height.

# 3.2 General Procedures

All testing occurs during the dark-phase (the active phase) of the light cycle. Testing is conducted under dim white-light illumination (about 150 lux). The subjects are moved from their housing room to the testing room and allowed to acclimate for at least 10min before testing. After testing is completed, the mice are immediately returned to the housing room. The test is recorded using digital video cameras.

# 3.3 Testing Procedure

1. Clean the testing arena with soap and water. Allow the arena to dry before use.

2. Begin recording. Hold the test card (with the date, test name, and testing conditions) in view. Hold the subject's cage card in view.

3. Place the subject into the cylinder.

4. After five minutes, return the subject to its homecage.