

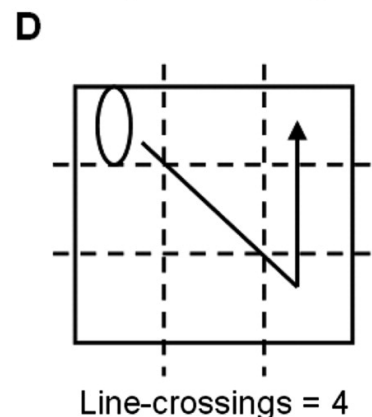
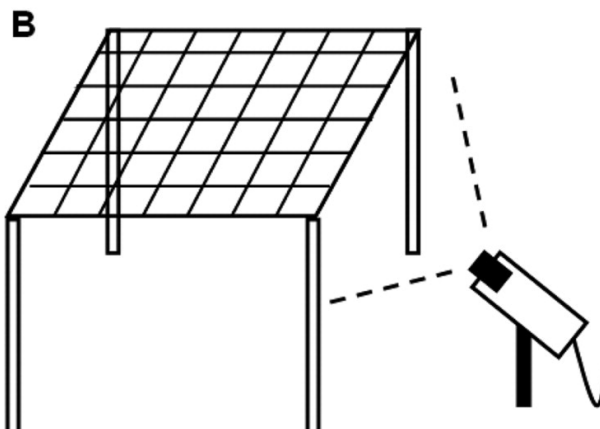
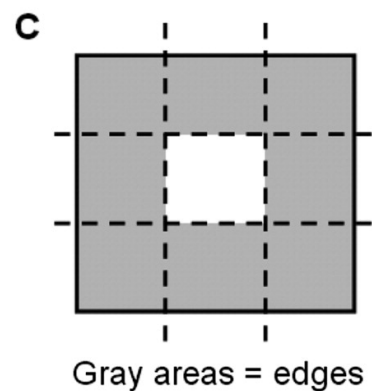
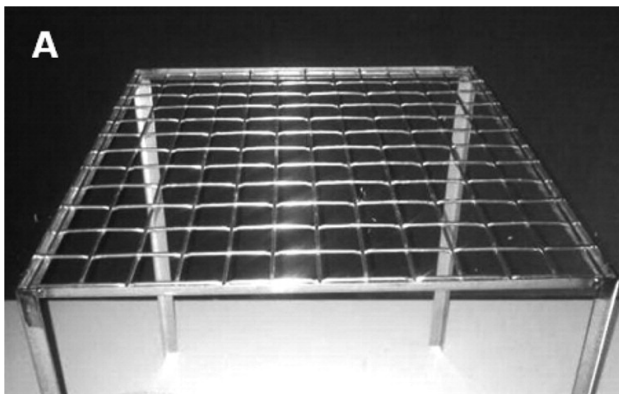
**Description of Procedure:**

The grid walk test (often referred to as the foot fault task) is aimed to assess deficits in descending motor control.

The apparatus consists of a grid floor. The grid is slightly raised above a surface. Each mouse is placed at one end of the grid and monitored or videotaped from the side as they traverse the grid. The number of forelimb and hind limb placement errors as the animal traverses the grid is scored. An error is counted whenever a limb misses a bar and extends downward through the plane of the bars.

**Supplies:**

- Wire grid and a Video Camera (optional)



**Procedure Steps:**

1. Adult mice are placed on a wire or metal grid and are observed as they navigate over the grid.
2. A foot-miss is counted when a limb paw protrudes through the grid.

**IACUC protocol:**

Include length of test session and frequency.

**References:**

1. O.Y. Chao, M.E. Pum, J.-S. Li, J.P. Huston, The grid-walking test: assessment of sensorimotor deficits after moderate or severe dopamine depletion by 6-hydroxydopamine lesions in the dorsal striatum and medial forebrain bundle, *Neuroscience*, Volume 202, 2012, Pages 318-325.