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## Adhesive Removal Test in Hemiparkinsonian Mice

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SOX6 mDA differentiation



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**We use this protocol and it's working**

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## Abstract

This protocol is able to assess complex forepaw motor coordination and paw-eye coordination in hemiparkinsonian rodent animals.

## Materials

- Green adhesive paper tape (cut into 2 × 3 mm pieces)
- Timer or stopwatch
- Clean testing area (quiet, well-lit)
- Forceps (for tape placement)
- Data recording sheet

## Troubleshooting



## Animal Training (Pre-Test Preparation)

- 1 Train animals for **a minimum of 2 consecutive days** before the testing day.
  - Perform **3 mock trials** (see below for trial procedure) **per paw per day** (left and right paws separately).
  - Use the same tape and procedure as in the actual test.
  - Ensure animals are accustomed to both the tape and the testing procedure.

## Trial Procedure

- 2 Cut adhesive paper tape into **2 mm × 3 mm** pieces.
- 3 Place **one piece of tape on each paw**, one paw at a time, using forceps.
- 4 Start the timer **when the animal attempts to remove the tape**. If the animal **takes longer than 60 seconds**, stop the trial and resume the trial at least **15 minutes later**.
- 5 Stop the timer **once the tape is fully removed** from the paw.
- 6 Perform **3 valid trials per paw**.

## Data Analysis

- 7 Calculate the **average removal time** across 3 trials for each paw.
- 8 Calculate **Net Contralateral Time**:  $\text{Net Time} = \text{Ipsilateral Time} - \text{Contralateral Time}$   
This normalization helps eliminate external influences and better visualize lateralized sensorimotor deficits.