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Adhesive Removal

 Forked from [Sticker Removal](#)

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Anastasiya Moiseyenko¹

¹California Institute of Technology



Anastasiya Moiseyenko

California Institute of Technology

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Protocol status: Working

We use this protocol and it's working



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Abstract

The adhesive removal test is a test of fine motor function where an animal is tested for how quickly it is able to remove a sticker from it's nose. Difficulties in these tasks are commonly attributed to either sensory perturbations or difficulty in initiating or performing movement². PD models (Parkin-KO, DJ-1, and Thy1-aSyn) mice show an increase in the time required to remove the adhesive sticker compared to controls².

Materials

1. Tough-Spots 3/8in round tube labels
2. Tweezers
3. Stopwatch
4. Empty rodent cage

Set up

- 1 Habituate animals to behavior testing room for 1 hour prior to start of assay.
- 2 Remove cagemates from home cage into a clean cage.

Testing

- 3
Use tweezers to pick up one sticker, allowing it to sit on a single prong with the adhesive side freely visible.
- 4
Manually restrain/scruff a mouse and immobilize the head and forepaws.
- 5
Using the tweezers gently press the adhesive side of the sticker onto the nose bridge of the restrained mouse, gently putting down the tweezers and picking up a stopwatch.
- 5.1
Sticker must be not too close to tip of the nose and not too close or covering the eyes.
- 5.2
Avoid placing the tweezers onto a hard surface or dropping them, as the high pitch noise will disturb the mice.
- 6
Place the restrained mouse into the home cage, immediately start timer, and time how long the mouse takes to remove the sticker using its forepaws.
- 7
Stop the timer once the sticker has been removed completely from the nose. Remove the sticker (now on the forepaws) from the mouse.
- 8
Allow the mouse 30 seconds to recover in the cage.
- 9
Repeat for a total of 2 trials.



- 10 Clean tweezers and secondary cage or use a new clean cage for the following experimental cage of animals.

Protocol references

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2. A, Mann & MF, Chesselet. (2015). Techniques for Motor Assessment in Rodents. *Movement Disorders (Second Addition)*. 8.4. 139-157. 10.1016/B978-0-12-405195-9.00008-1.