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Cylinder test in rats

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Eduard Bentea¹, María Sanchiz Calvo¹, Veerle Baekelandt¹

¹Katholieke Universiteit Leuven



María Sanchiz Calvo

KU Leuven

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Protocol status: Working

We use this protocol and it's working

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ASAP (Aligning Science Across Parkinson's)

Abstract

Protocol for performing the cylinder test in rats. The cylinder test evaluates asymmetry in forelimb use, and can be used in animal models with unilateral lesions of the nigrostriatal dopaminergic pathway.

Troubleshooting



Test

1h

- 1 Bring cages to the behavioral room for at least  01:00:00 prior to the test for habituation  1h
- 2 Place each rat in a glass cylinder (20-cm wide), surrounded by mirrors to allow a full 360 degree view. Videotape from the front for  00:05:00 or until the rat performs a minimum of 20 weight-bearing forepaw contacts with the cylinder walls.  5m
- 3 Perform blinded analysis from the recorded videos of the number of contralateral forepaw contacts, and express these as a percentage of total forepaw contacts.