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Novel Object Recognition

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Protocol status: Working

We use this protocol and it's working

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Abstract

Novel object recognition rodent behavioral test protocol

Set Up

- 1 Clean open field maze with 70% ethanol and obtain 3 sets of different novel objects.
- 2 Set up open field maze (Noldus Maze Engineeres) with 4x single arenas with dimensions 40cm x 40cm x 40cm.
- 3 Habituate mice to room for approximaetly 1 hour prior to testing.
- 4 Obtain two distinct objects of similar complexity (blocks of the same size, different shape).
 - 4.1 Level of manipulation of objects by rodents should be minimal and consistent such that objectcs cannot be moved.
 - 4.2 You will need two of the same novel objects to train the mice. Example; two blocks pyramind shaped blocks, one rectangular block

Procedure - Training Session

- 5 Mice should be habituated to the open box without either novel object for 5 minutes.
- 6 Position both that identical objects in the open field, allow mice to explore for an additional 5 minutes.
- 7 Record the time spent exploring each object.
 - 7.1 Exploration should be defined as sniffing, biting, or facing the object.
- 8 Clean open field and objects with 70% ethanol between each animal training session.

Procedure - Test Session



- 9 24 Hours after training session, repeat step 5 to habituate mice.
- 10 After this, allow 5 minutes of exploration, time this time using one of the familiar objects and the novel object.
- 11 Record the time spent exploring the novel object and familiar object.
- 12 Clean open field and objects with 70% ethanol between each animal test session.