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We use this protocol and it's working

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🌐 Open Field

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ABSTRACT

Behavioral assay for general locomotion in mice.

MATERIALS

- Open field arenas: 40 x 40 dark box
- Recording camera
- Ethovision XT v11

1   Habituate naive mice to the room for 🕐 01:00:00 .   `1h`

2   Transfer each mouse to a custom 40 cm x 40 cm dark box, with a clear floor and a light suspended on the center of the apparatus.

3   Test duration was set at 🕐 00:20:00 .   `20m`

4   After each test and between each group, clean apparatus thoroughly with 50% ethanol followed by water.

5   **Analysis**:
- Center of open field is defined by the space located at least 5 cm from any given wall.
- Time in the center, distance travelled, and average speed is obtained by the built-in functions of the tracking software Ethovision XT11.