

Présentation des projets PETITS ET MOYENS EQUIPEMENTS soutenus par le DIM Cerveau & Pensée

Programme de financement 2013

SOURIS-CITY

Screening individual and social behaviors in mice through ecological and automatized laboratory

Laboratoire ou site d'accueil	Porteur de projet	Institution porteuse
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The goal is to screen mice behaviors in an «ethological» environment: development of an experimental setup combining an environment where animals live, associated with a high-throughput modular testing platform. In this environment, groups of normal or pathological-model mice have access to specific feeding-related tasks while their social, circadian and cognitive behaviors are monitored continuously using multiple sensors. We call this environment the Souris-city.

It has 3 main advantages:

- 1) subjects are tested in an environment shared with their social group;
- 2) there is no need for specific training, a minimization of handling or novelty effect and experimenter's presence is made unnecessary by the full automation;
- 3) it permits testing of complex social and non-social cognitive skills.

This setup would represent an ideal mean to assess mice in paradigms relevant for psychiatry as well as a unique opportunity to address the link between cognitive performance and individual traits derived from spontaneous behavior.

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