



What is the impact of circadian rhythm on task performance in mice?



INTERNATIONAL
BRAIN
LABORATORY



Immediate Goal-:

- To determine an optimal training schedule to maximize learning based on certain known parameters about the mouse, for e.g., age, sex, and eating/ sleeping habits.

Overall Goal-:

- Implications of circadian rhythm on task performance. Impact on cognitive performance. And, can we derive an optimal schedule for any animal based on certain known pointers about their routine?



Data set: The International Brain Laboratory (IBL)

Parameters currently looking into:

1

Fixed v/s
Flexible training

2

Day v/s Night
training effect
on learning rate

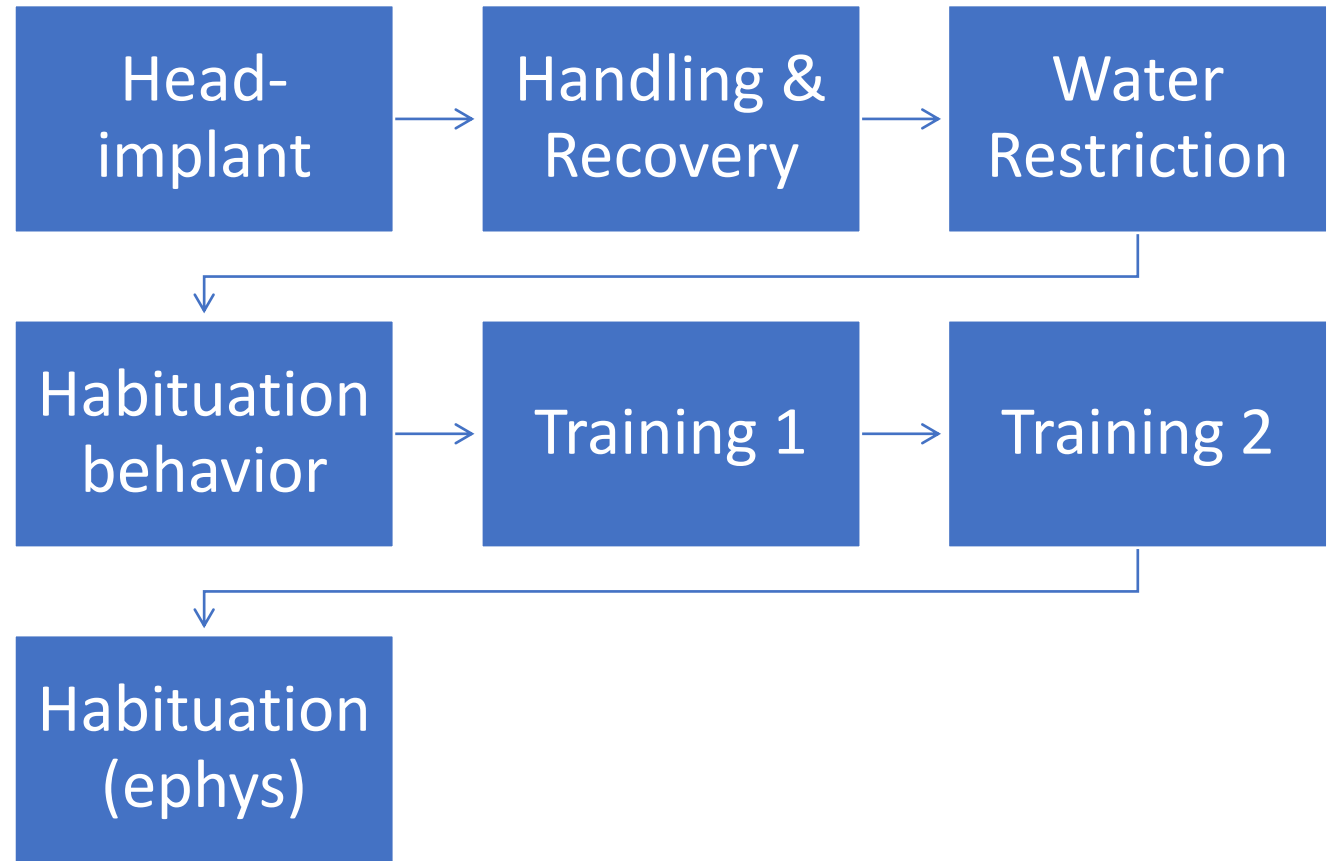
3

Across lab
variability in
training

4

Male/ Female
dissimilarities

Training Procedure



Slowly the contrast were gradually introduced

Trial Dynamics

