

# The Novel Object Recognition Memory Neurobiology Test

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## **The novel object recognition memory: Neurobiology, test ...**

Novel Object Recognition Test for the Investigation of Learning and Memory in Mice  
The JoVE video player is compatible with HTML5 and Adobe Flash. Older browsers that do not support HTML5 and the H.264 video codec will still use a Flash-based video player.

## **When Is the Hippocampus Involved in Recognition Memory ...**

A systematic study of discrimination performance in a range of object recognition tests demonstrated that in the novel object preference task, the data obtained from the first 2 min were the most sensitive measure of recognition memory, whereas in the object location and object-in-place tests, the most sensitive period of discrimination was in the first minute (Dix and Aggleton, 1999).

## **The Novel Object Recognition Memory**

The Novel Object Recognition (NOR) task is used to evaluate cognition, particularly recognition memory, in rodent models of CNS disorders. This test is based on the spontaneous tendency of rodents to spend more time exploring a novel object than a familiar one. The choice to explore the novel object ...

## **Object Recognition Memory - an overview | ScienceDirect Topics**

Novel object recognition (NOR) is a highly validated test for recognition memory. It is mostly used to test the efficacy of memory enhancing compounds, the (negative) effects of certain other compounds on memory, or the influence of genetics or age on memory.

## **2-Object Novel Object Recognition | Behavioral and ...**

In humans, memory is often accessed through spoken or written language, while in animals, cognitive functions must be accessed through different kind of behaviors in many specific, experimental models of memory and learning. Among them, the novel object recognition test can be evaluated by the differences in the exploration time of novel and ...

## **Frontiers | Object location and object recognition memory ...**

The novel object recognition (NOR) is a widely used animal model for the investigation of memory alterations. Creative Biolabs uses this task to evaluate the effect of drug candidates on short-term memory, intermediate-term memory, and long-term memory, by assessment of the retention interval, that is, amount of time for which animals must retain memory of the sample objects placed during the ...

## **The novel object recognition memory: neurobiology, test ...**

The role of the hippocampus in recognition memory is controversial. Recognition memory judgments may be made using different types of information, including object familiarity, an object's spatial location, or when an object was encountered. Experiment 1 examined the role of the hippocampus in recognition memory tasks that required the animals to use these different types of mnemonic information.

## **Post-training reversible inactivation of the hippocampus ...**

Whereas object-place recognition memory was stronger for rats that had slept after encoding (rather than being awake) at both immediate and remote testing, novel-object recognition memory profited from sleep only three weeks after encoding, at which point it was preserved in rats that had slept after encoding but not in those that had been awake.

## **Post-training reversible inactivation ... - Learning & Memory**

In the dog, object recognition memory is examined using a delayed nonmatching to sample (DNMS) paradigm with either the variable delay or progressive delay protocols, comparable to the DNMP task (Callahan et al., 2000). Most young and some old dogs can perform the DNMS task at over 80% accuracy, but performance declines with longer delay intervals.

## **Novel object recognition - Automate your test | Noldus**

In contrast, the role of the hippocampus in object recognition memory remains a source of debate. Some studies have reported novel object recognition (NOR) impairments in animals with hippocampal lesions (Clark et al. 2000; Broadbent et al. 2004, 2010), yet others have reported no impairments (Winters et al. 2004; Good et al. 2007).

## **Recognition Memory for Objects, Place, and Temporal Order ...**

The object-place recognition task exploits the natural exploratory activity of rodents toward spatial novelty to assess the detection of spatial relocation of a known object and is critically dependent on the hippocampus (Save et al. 1992; Stupien et al. 2003). After a 6-min habituation session in an empty arena, mice were exposed to the training context that now contained three distinct ...

## **Novel Object Recognition Task - Creative Biolabs**

**Keywords** Novel object recognition Memory Learning Novelty Animals Introduction  
Over time, the relationship between novelty and behavior has received much attention from researchers. Novelty is an alteration from expected likelihood of an event on the

### **Novel Object Recognition Test for the Investigation of ...**

The third trial (the objection recognition memory testing phase) commenced 60 min after the second trial where the rat was allowed to explore objects for 5 min in the same open field box comprising one object used in the trial 2 (i.e., the familiar object) and a new object replacing the second object used in trial 2 (i.e., the novel object, Figure 4C).

### **Ontogeny of Rat Recognition Memory Measured by the Novel ...**

The novel object recognition test based on the fact that mice have a tendency to explore more a novel object than a familiar object for assessing recognition memory [30].

### **The hippocampus is crucial for forming non-hippocampal ...**

A survey of the literature indicates that both rapid eye movement sleep deprivation (RSD) and activation of cannabinoid CB 1 receptor (CB 1 R) may impair novel object recognition (NOR) memory in rodents. To our knowledge, so far, no previous study has investigated the probable effects of RSD on the different phases of NOR memory.

### **The novel object recognition memory: neurobiology, test ...**

novel object and a copy of the previously seen familiar object. Each rat was allowed to explore until a total of 30 sec of object exploration had been accumulated. The percent time spent exploring the novel object served as the measure of recognition memory for the familiar object (see Supporting Text).

### **Novel object recognition memory in REM sleep-deprived rats ...**

As this is an innate tendency, novel object recognition (NOR) procedures offer advantages over many learning and memory tasks in that NOR can be studied without training or the use of positive (e.g., food) or negative (e.g., footshock) reinforcers (Lyon et al. 2012).

### **The novel object recognition memory: neurobiology, test ...**

The purpose of the current work was to study performance on the novel object recognition task (NOR) across development. The NOR, as first laid out in methodological detail by Ennaceur and Delacour (1988), assesses a rat's ability to recognize a familiar object over a variable length of time; this ability has been coined recognition memory. The NOR task is particularly amenable to developmental ...

### **Spatial memory, recognition memory, and the hippocampus**

The perirhinal cortex codes object recognition decays fast and is not sufficient for maintaining information about object during longer retention intervals, while the hippocampus, by coding object memory, maintains strong novel object preference after long but not short delays (Hammond et al. 2004).

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