

MARBLE BURYING TEST

Key-words: Anxiety, OCD, Anxiolytics

The marble burying test is a model of **anxiety-related** and **Obsessive Compulsive Disorder (OCD)-related** behavior in mice ^(1,2).

Rationale – The anxiety/OCD-related behavior is measured by marble burying behavior.

Method – An open box is used and 25 clean glass marbles are evenly spaced 5 cm apart on sawdust.

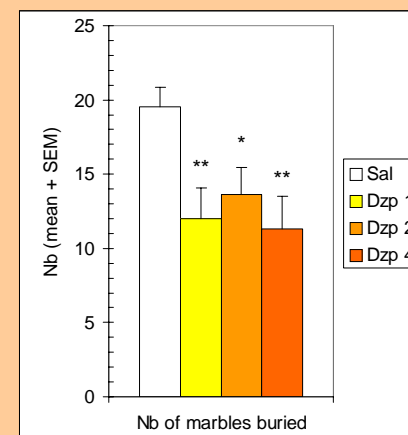
- The index of anxiety/OCD-related behavior is the number of marbles buried.
→ The number of marbles buried is **decreased** by **anxiolytic** drugs and by drugs which are **effective for the treatment of OCD**

Example

The anxiolytic drug diazepam decreases the number of marbles buried.

- References;**
1. Broekkamp et al., Eur J Pharmacol. 126:223-229, 1986
 2. Njung"e and Handley, Br J Pharmacol. 105:105-112, 1991

Effect of diazepam (Dzp, doses in mg/kg) on the number of marbles buried in Swiss mice.



*Difference vs. control group (Sal): * $p < 0.05$, ** $p < 0.01$.*