

# Factors affecting oestrous cycles in the house mouse (*Mus musculus*)

## Abstract

This bachelor thesis deals with factors which have significant influence on house mouse (*Mus musculus*) oestrous cycle. Main theme is oestrous cycle modulation caused by male or female chemical signals. Familiar phenomena like Bruce effect, Whitten effect and Lee-Boot effect are described in detail along with newly explored social modulation issues (ovulation trigger, male genotype role etc.). Environmental impact is also included, especially role of Bisphenol A in connection with negative impacts on human reproduction (tested on mice).

Key words: oestrus, pheromone, MUP, *Mus musculus*, vomeronasal organ