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## Dependence between temperature and ambience humidity and body temperature of chinchilla (*Chinchilla lanigera*)

### S u m m a r y

The aim of this work was to examine dependence of chinchilla body temperature from thermal conditions and humidity pervading on farm. The investigations were carried out through 12 months on 12 individuals. A total of 264 measurements were completed. The temperature of chinchilla body was measured *per rectum* with the accuracy 0.1°C. During the experiment the temperature on the farm ranged from 2.0°C to 26.0°C with air humidity from 16% to 98%. The chinchilla body temperature ranged between 31.0°C to 36.2°C. Calculated mean (34.1°C ±0.1) is lower than the values published generally in literature. It resulted from different environment temperature and humidity accompanying execution of measurements. The results obtained in this study indicate a big thermo regulative ability of chinchilla, regulating quick changes of body temperature on changing temperature of milieu. The analysis of variance showed significant influence of ambient temperature and humidity on chinchilla body temperature. The presented differences between means for different ambient temperature, particularly in a range from 4°C to 17°C were statistically significant. At the temperature above 17°C statistically significant differences between measurements did not appear, and body temperature of chinchilla remain stable about 35°C. Dependence between air humidity and body temperature were not so clear, but revealed statistically significant differences between means for different values of humidity.