

In house mice from the superspecies complex *Mus musculus* s.l., the relative weight of their testicles is higher and the sperm quality is better for the exoanthropic species than for the synantropic ones. It is shown that this pattern is observed at an intraspecific level as well, since the testicle weight index and sperm concentration were significantly higher in the hemi-synantropic subspecies *Mus musculus wagneri* and *M. m. gansuensis* as compared to the synantropic *M. m. musculus* in a few comparisons. The heritability of these indices should be considered when interpreting the results of experimental crosses in house mice.